# SAFETY DATA SHEET



Date of issue/Date of revision 10 June 2021

Version 20.02

### **Section 1. Identification**

Product name : PR 1764 B 2 Part A Product code : PR 1764 B 2 Part A

Other means of identification

: Not available.

Product type : Liquid.

Relevant identified uses of the substance or mixture and uses advised against

Product use : Industrial applications.

Use of the substance/

mixture

: Sealants

Uses advised against : Not applicable.

**Manufacturer** : PPG Aerospace PRC-DeSoto

12780 San Fernando Road

Sylmar, CA 91342 Phone: 818 362 6711

**Emergency telephone** 

<u>number</u>

: (412) 434-4515 (U.S.) (514) 645-1320 (Canada) 01-800-00-21-400 (Mexico)

# Section 2. Hazards identification

#### **OSHA/HCS status**

Classification of the substance or mixture

- : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
- : FLAMMABLE LIQUIDS Category 3
  ACUTE TOXICITY (oral) Category 4
  ACUTE TOXICITY (dermal) Category 4
  ACUTE TOXICITY (inhalation) Category 1

SKIN IRRITATION - Category 2
SERIOUS EYE DAMAGE - Category 1
SKIN SENSITIZATION - Category 1
GERM CELL MUTAGENICITY - Category 1
CARCINOGENICITY - Category 1B
TOXIC TO REPRODUCTION - Category 2

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract

irritation) - Category 3

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 4.3% (oral), 70.8% (dermal), 44.4% (inhalation)

#### **GHS label elements**

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### Section 2. Hazards identification

#### **Hazard pictograms**











#### Signal word

**Hazard statements** 

: Danger

: Flammable liquid and vapor.

Harmful if swallowed or in contact with skin.

Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye damage.

Fatal if inhaled.

May cause respiratory irritation. May cause genetic defects.

May cause cancer.

Suspected of damaging fertility or the unborn child.

May cause damage to organs through prolonged or repeated exposure. (brain, hearing organs)

#### **Precautionary statements**

**Prevention** 

: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. In case of inadequate ventilation wear respiratory protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.

#### Response

: IF exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor. IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. Rinse mouth. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. IF ON SKIN: Call a POISON CENTER or doctor if you feel unwell. Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

#### **Storage**

: Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.

#### **Disposal**

: Dispose of contents and container in accordance with all local, regional, national and international regulations.

# Supplemental label elements

: Sanding and grinding dusts may be harmful if inhaled. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing. Wash thoroughly after handling. Emits toxic fumes when heated.

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### Section 2. Hazards identification

Hazards not otherwise classified

: Oxidising potential: Contact with combustible material may cause fire. Keep away from clothing, incompatible materials and combustible materials. This material increases the risk of fire and may aid combustion. Prolonged or repeated contact may dry skin and cause irritation.

### Section 3. Composition/information on ingredients

Substance/mixture : Mixture

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Ingredient name	%	CAS number
manganese dioxide	≥20 - ≤38	1313-13-9
Terphenyl, hydrogenated	≥20 - ≤50	61788-32-7
magnesium chromate	≥10 - ≤20	13423-61-5
xylene	≥5.0 - ≤10	1330-20-7
Polyphenyls, quater- and higher, partially hydrogenated	≥1.0 - ≤5.0	68956-74-1
Zeolites	≥1.0 - ≤5.0	1318-02-1
terphenyl	≥0.10 - ≤2.1	26140-60-3
ethylbenzene	≤1.9	100-41-4
1,3-diphenylguanidine	≤1.8	102-06-7

SUB codes represent substances without registered CAS Numbers.

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

#### **Description of necessary first aid measures**

**Eye contact**: Check for and remove any contact lenses. Immediately flush eyes with running water for

at least 15 minutes, keeping eyelids open. Seek immediate medical attention.

Inhalation
 : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained

personnel.

Skin contact : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water

or use recognized skin cleanser. Do NOT use solvents or thinners.

**Ingestion**: If swallowed, seek medical advice immediately and show this container or label. Keep

person warm and at rest. Do NOT induce vomiting.

#### Most important symptoms/effects, acute and delayed

Potential acute health effects

**Eye contact** : Causes serious eye damage.

**Inhalation** : Fatal if inhaled. May cause respiratory irritation.

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### Section 4. First aid measures

**Skin contact**: Harmful in contact with skin. Causes skin irritation. Defatting to the skin. May cause

an allergic skin reaction.

**Ingestion**: Harmful if swallowed.

Over-exposure signs/symptoms

**Eye contact** : Adverse symptoms may include the following:

pain watering redness

**Inhalation** : Adverse symptoms may include the following:

respiratory tract irritation

coughing

reduced fetal weight increase in fetal deaths skeletal malformations

**Skin contact**: Adverse symptoms may include the following:

pain or irritation redness

dryness cracking

blistering may occur reduced fetal weight increase in fetal deaths skeletal malformations

**Ingestion** : Adverse symptoms may include the following:

stomach pains reduced fetal weight increase in fetal deaths skeletal malformations

#### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed.

The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments**: No specific treatment.

**Protection of first-aiders**: No action shall be taken involving any personal risk or without suitable training. If it is

suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water

before removing it, or wear gloves.

#### See toxicological information (Section 11)

### Section 5. Fire-fighting measures

#### **Extinguishing media**

Suitable extinguishing

media

: Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

**Unsuitable extinguishing** 

media

: Do not use water jet.

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### Section 5. Fire-fighting measures

Specific hazards arising from the chemical

: Flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products

: Decomposition products may include the following materials: carbon oxides

nitrogen oxides metal oxide/oxides

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders:

: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** 

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

#### Methods and materials for containment and cleaning up

**Small spill** 

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

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### Section 7. Handling and storage

#### **Precautions for safe handling**

#### **Protective measures**

Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

#### **Special precautions**

: Ingestion of product or cured coating may be harmful. Keep away from combustible materials. If this material is part of a multiple component system, read the Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.

# Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

# Conditions for safe storage, including any incompatibilities

Do not store below the following temperature: 5°C (41°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

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### Section 8. Exposure controls/personal protection

#### **Control parameters**

#### Occupational exposure limits

Ingredient name	Exposure limits
manganese dioxide	ACGIH TLV (United States, 3/2020).
-	TWA: 0.1 mg/m³, (as Mn) 8 hours. Form:
	Inhalable fraction
	TWA: 0.02 mg/m³, (as Mn) 8 hours. Form:
	Respirable fraction
	OSHA PEL (United States, 5/2018).
	CEIL: 5 mg/m³, (as Mn)
Terphenyl, hydrogenated	ACGIH TLV (United States, 3/2020).
	TWA: 4.9 mg/m <sup>3</sup> 8 hours.
	TWA: 0.5 ppm 8 hours.
magnesium chromate	OSHA PEL Z2 (United States, 2/2013).

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### Section 8. Exposure controls/personal protection

CEIL: 1 mg/10m<sup>3</sup>

ACGIH TLV (United States, 3/2020).

TWA: 0.0002 mg/m<sup>3</sup>, (measured as Cr) 8

hours. Form: Inhalable fraction

STEL: 0.0005 mg/m<sup>3</sup>, (measured as Cr) 15

minutes. Form: Inhalable fraction OSHA PEL (United States, 5/2018). TWA: 0.005 mg/m³, (as Cr) 8 hours.

ACGIH TLV (United States, 3/2020). STEL: 651 mg/m<sup>3</sup> 15 minutes. STEL: 150 ppm 15 minutes.

TWA: 434 mg/m<sup>3</sup> 8 hours. TWA: 100 ppm 8 hours.

OSHA PEL (United States, 5/2018).

TWA: 435 mg/m<sup>3</sup> 8 hours. TWA: 100 ppm 8 hours.

None.

ACGIH TLV (United States, 3/2020).

TWA: 1 mg/m<sup>3</sup> 8 hours. Form: Respirable

fraction

ACGIH TLV (United States, 3/2020).

C: 5 mg/m<sup>3</sup> C: 0.53 ppm

OSHA PEL (United States, 5/2018).

CEIL: 9 mg/m<sup>3</sup> CEIL: 1 ppm

ACGIH TLV (United States, 3/2020).

TWA: 20 ppm 8 hours.

OSHA PEL (United States, 5/2018).

TWA: 435 mg/m<sup>3</sup> 8 hours. TWA: 100 ppm 8 hours.

None.

1,3-diphenylguanidine

Key to abbreviations

= Acceptable Maximum Peak

ACGIH = American Conference of Governmental Industrial Hygienists.

Polyphenyls, quater- and higher, partially hydrogenated

= Ceilina Limit C F = Fume

xylene

Zeolites

terphenyl

ethylbenzene

**IPEL** = Internal Permissible Exposure Limit

 Occupational Safety and Health Administration. OSHA

= Respirable R

Z = OSHA 29 CFR 1910.1200 Subpart Z - Toxic and Hazardous Substances

S = Potential skin absorption SR = Respiratory sensitization SS = Skin sensitization

STEL = Short term Exposure limit values

TD = Total dust

= Threshold Limit Value TLV TWA = Time Weighted Average

#### Consult local authorities for acceptable exposure limits.

procedures

Recommended monitoring: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

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### Section 8. Exposure controls/personal protection

Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### **Individual protection measures**

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection Skin protection

**Hand protection** 

: Chemical splash goggles and face shield.

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the

protection time of the gloves cannot be accurately estimated.

Gloves
Body protection

: butyl rubber

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear antistatic protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

Other skin protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** 

Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. The respiratory protection shall be in accordance to 29 CFR 1910.134.

### Section 9. Physical and chemical properties

**Appearance** 

Physical state : Liquid.
Color : Black.

Odor : Not available.
Odor threshold : Not available.
pH : Not applicable.

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### Section 9. Physical and chemical properties

Melting point : Not available.

**Boiling point** :  $>37.78^{\circ}\text{C} (>100^{\circ}\text{F})$ 

Flash point : Closed cup: 57.22°C (135°F)

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Flammability (solid, gas) : Not available.

Lower and upper explosive : Not available.

(flammable) limits

Evaporation rate : Not available.

Vapor pressure : Not available.

Vapor density : Not available.

Relative density : 1.62

Density ( lbs / gal ) : 13.52

**Solubility** : Insoluble in the following materials: cold water.

Partition coefficient: n-

octanol/water

: Not applicable.

Viscosity : Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)

**VOC** : 143 g/l

### Section 10. Stability and reactivity

**Reactivity**: No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability**: The product is stable.

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to avoid** : When exposed to high temperatures may produce hazardous decomposition products.

Refer to protective measures listed in sections 7 and 8.

**Incompatible materials**: Keep away from the following materials to prevent strong exothermic reactions:

oxidizing agents, strong alkalis, strong acids.

Hazardous decomposition

products

: Depending on conditions, decomposition products may include the following materials:

carbon oxides nitrogen oxides metal oxide/oxides

### **Section 11. Toxicological information**

Information on toxicological effects

**Acute toxicity** 

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### **Section 11. Toxicological information**

Product/ingredient name	Result	Species	Dose	Exposure
manganese dioxide	LD50 Oral	Rat	3478 mg/kg	-
Terphenyl, hydrogenated	LD50 Oral	Rat	17500 mg/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
Zeolites	LD50 Oral	Rat	>5 g/kg	-
terphenyl	LD50 Oral	Rat - Female	2304 mg/kg	-
ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
1,3-diphenylguanidine	LD50 Oral	Rat	323 mg/kg	-

**Conclusion/Summary** 

: There are no data available on the mixture itself.

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	

Conclusion/Summary

Skin : There are no data available on the mixture itself. : There are no data available on the mixture itself. **Eyes** Respiratory : There are no data available on the mixture itself.

**Sensitization** 

**Conclusion/Summary** 

Skin : There are no data available on the mixture itself. : There are no data available on the mixture itself. Respiratory

**Mutagenicity** 

: There are no data available on the mixture itself. **Conclusion/Summary** 

Carcinogenicity

**Conclusion/Summary** : There are no data available on the mixture itself.

**Classification** 

Product/ingredient name	OSHA	IARC	NTP
magnesium chromate xylene - Zeolites ethylbenzene	+	1 3 3 2B	Known to be a human carcinogen

Carcinogen Classification code:

IARC: 1, 2A, 2B, 3, 4

NTP: Known to be a human carcinogen; Reasonably anticipated to be a human carcinogen

OSHA: +

Not listed/not regulated: -

**Reproductive toxicity** 

**Conclusion/Summary** : There are no data available on the mixture itself.

**Teratogenicity** 

**Conclusion/Summary** : There are no data available on the mixture itself.

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### **Section 11. Toxicological information**

#### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
magnesium chromate	Category 3	-	Respiratory tract irritation
xylene	Category 3	-	Respiratory tract irritation
1,3-diphenylguanidine	Category 3	-	Respiratory tract irritation

#### Specific target organ toxicity (repeated exposure)

Name		Route of exposure	Target organs
manganese dioxide ethylbenzene	Category 2	inhalation	brain
	Category 2	-	hearing organs

#### **Target organs**

: Contains material which causes damage to the following organs: lungs, brain, skin, central nervous system (CNS), nose/sinuses.

Contains material which may cause damage to the following organs: blood, kidneys, the nervous system, liver, spleen, lymphatic system, upper respiratory tract, bone marrow, ears, eye, lens or cornea.

#### **Aspiration hazard**

Name	Result
	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

#### Information on the likely routes of exposure

#### Potential acute health effects

**Eye contact** : Causes serious eye damage.

**Inhalation** : Fatal if inhaled. May cause respiratory irritation.

Skin contact : Harmful in contact with skin. Causes skin irritation. Defatting to the skin. May cause

an allergic skin reaction.

**Ingestion**: Harmful if swallowed.

#### Over-exposure signs/symptoms

**Eye contact** : Adverse symptoms may include the following:

pain watering redness

**Inhalation** : Adverse symptoms may include the following:

respiratory tract irritation

coughing

reduced fetal weight increase in fetal deaths skeletal malformations

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### **Section 11. Toxicological information**

Skin contact : Adverse symptoms may include the following:

pain or irritation

redness dryness cracking

blistering may occur reduced fetal weight increase in fetal deaths skeletal malformations

Adverse symptoms may include the following: Ingestion

> stomach pains reduced fetal weight increase in fetal deaths skeletal malformations

#### Delayed and immediate effects and also chronic effects from short and long term exposure

**Conclusion/Summary** 

: There are no data available on the mixture itself. Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatique, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone. If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Short term exposure

**Potential immediate** 

effects

effects

: There are no data available on the mixture itself.

Potential delayed effects

Long term exposure

Potential immediate

: There are no data available on the mixture itself.

There are no data available on the mixture itself.

Potential delayed effects : There are no data available on the mixture itself.

Potential chronic health effects

**General** 

: May cause damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

: May cause cancer. Risk of cancer depends on duration and level of exposure.

Mutagenicity : May cause genetic defects.

Reproductive toxicity : Suspected of damaging fertility or the unborn child.

**Numerical measures of toxicity** 

**Acute toxicity estimates** 

Carcinogenicity

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# Section 11. Toxicological information

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)		Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ l)
PR 1764 B 2 Part A	440.1	1480.9	N/A	72.4	0.016
manganese dioxide	500	N/A	N/A	N/A	1.5
Terphenyl, hydrogenated	17500	N/A	N/A	N/A	N/A
magnesium chromate	100	1100	N/A	N/A	0.005
xylene	4300	1700	N/A	11	1.5
terphenyl	2304	N/A	N/A	N/A	N/A
ethylbenzene	3500	17800	N/A	17.8	1.5
1,3-diphenylguanidine	323	N/A	N/A	N/A	N/A

# Section 12. Ecological information

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
Zeolites	Acute LC50 >680 mg/l	Fish	96 hours
terphenyl	Acute EC50 0.022 mg/l	Daphnia	48 hours
	Chronic NOEC 0.00322 mg/l	Daphnia	72 hours
ethylbenzene	Acute LC50 150 to 200 mg/l Fresh water	Fish	96 hours

#### Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
xylene	-	-	Readily
terphenyl	-	-	Not readily
ethylbenzene	-	-	Readily

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
xylene	3.12	7.4 to 18.5	low
ethylbenzene	3.6	79.43	low
1,3-diphenylguanidine	2.42	19.95	low

#### **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

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### Section 13. Disposal considerations

#### **Disposal methods**

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

### 14. Transport information

	DOT	IMDG	IATA
UN number	UN1133	UN1133	UN1133
UN proper shipping name	ADHESIVES	ADHESIVES	ADHESIVES
Transport hazard class (es)	3	3	3
Packing group	III	III	III
Environmental hazards	No.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	(magnesium chromate)	Not applicable.
Product RQ (lbs)	1313.6	Not applicable.	Not applicable.
RQ substances	(xylene)	Not applicable.	Not applicable.

#### **Additional information**

**DOT** 

: This product may be re-classified as "Combustible Liquid," unless transported by vessel or aircraft. Non-bulk packages (less than or equal to 119 gal) of combustible liquids are not regulated as hazardous materials in package sizes less than the product reportable quantity.

**IMDG** 

: The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.

**IATA** 

: The environmentally hazardous substance mark may appear if required by other transportation regulations.

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

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Product name PR 1764 B 2 Part A

### 14. Transport information

Transport in bulk according : Not applicable.

to IMO instruments

### Section 15. Regulatory information

#### **United States**

United States inventory (TSCA 8b): All components are active or exempted.

United States - TSCA 12(b) - Chemical export notification:

magnesium chromate Annual notification

TSCA 6 final risk management: magnesium chromate

**SARA 302/304** 

SARA 304 RQ : Not applicable.

Composition/information on ingredients

No products were found.

**SARA 311/312** 

Classification : FLAMMABLE LIQUIDS - Category 3

ACUTE TOXICITY (oral) - Category 4
ACUTE TOXICITY (dermal) - Category 4
ACUTE TOXICITY (inhalation) - Category 1

SKIN IRRITATION - Category 2
SERIOUS EYE DAMAGE - Category 1
SKIN SENSITIZATION - Category 1
GERM CELL MUTAGENICITY - Category 1
CARCINOGENICITY - Category 1B
TOXIC TO REPRODUCTION - Category 2

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract

irritation) - Category 3

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

**HNOC** - Defatting irritant

HNOC - Avoid contact with organic materials.

#### **Composition/information on ingredients**

Name	%	Classification
manganese dioxide	≥20 - ≤38	ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
magnesium chromate	≥10 - ≤20	HNOC - Avoid contact with organic materials.  ACUTE TOXICITY (oral) - Category 3  ACUTE TOXICITY (dermal) - Category 4  ACUTE TOXICITY (inhalation) - Category 1  SKIN IRRITATION - Category 2  SERIOUS EYE DAMAGE - Category 1  SKIN SENSITIZATION - Category 1B  GERM CELL MUTAGENICITY - Category 1B  CARCINOGENICITY - Category 1B  SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)  (Respiratory tract irritation) - Category 3

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Product code PR 1764 B 2 Part A
Product name PR 1764 B 2 Part A

### **Section 15. Regulatory information**

xylene	≥5.0 - ≤10	FLAMMABLE LIQUIDS - Category 3
		ACUTE TOXICITY (dermal) - Category 4
		ACUTE TOXICITY (inhalation) - Category 4
		SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2A
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Respiratory tract irritation) - Category 3
		ASPIRATION HAZARD - Category 1
Polyphenyls, quater- and higher,	≥1.0 - ≤5.0	HNOC - Defatting irritant
partially hydrogenated		
ethylbenzene	≤1.9	FLAMMABLE LIQUIDS - Category 2
		ACUTE TOXICITY (inhalation) - Category 4
		CARCINOGENICITY - Category 2
		SPECIFIC TARGET ORGAN TOXICITY (REPEATED
		EXPOSURE) - Category 2
		ASPIRATION HAZARD - Category 1
		HNOC - Defatting irritant
1,3-diphenylguanidine	≤1.8	COMBUSTIBLE DUSTS
		ACUTE TOXICITY (oral) - Category 4
		SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2A
		TOXIC TO REPRODUCTION - Category 2
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Respiratory tract irritation) - Category 3
		, , , ,

#### **SARA 313**

	<u>Chemical name</u>	<u>CAS number</u>	<u>Concentration</u>
Supplier notification	: manganese dioxide	1313-13-9	10 - 30
	magnesium chromate	13423-61-5	10 - 30
	xylene	1330-20-7	5 - 10
	ethylbenzene	100-41-4	0.5 - 1.5

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

#### California Prop. 65

MARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

### Section 16. Other information

**Hazardous Material Information System (U.S.A.)** 

Health: 3 \* Flammability: 2 Physical hazards: 1

(\*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on MSDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

**National Fire Protection Association (U.S.A.)** 

Health: 3 Flammability: 2 Instability: 1

Date of previous issue : 6/10/2021

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# SAFETY DATA SHEET



Date of issue/Date of revision 10 June 2021

Version 14.02

### **Section 1. Identification**

: PR 1764 B 2 Part B **Product name Product code** : PR 1764 B 2 Part B

Other means of identification

: Not available.

**Product type** : Solid.

Relevant identified uses of the substance or mixture and uses advised against

**Product use** : Industrial applications.

Use of the substance/

mixture

: Sealants

**Uses advised against** : Not applicable.

: PPG Aerospace PRC-DeSoto Manufacturer

12780 San Fernando Road

Sylmar, CA 91342 Phone: 818 362 6711

**Emergency telephone** 

number

: (412) 434-4515 (U.S.) (514) 645-1320 (Canada)

01-800-00-21-400 (Mexico)

# Section 2. Hazards identification

**OSHA/HCS** status

: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Classification of the** substance or mixture : RESPIRATORY SENSITIZATION - Category 1 SKIN SENSITIZATION - Category 1

CARCINOGENICITY - Category 1B

TOXIC TO REPRODUCTION - Category 1B

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 67.9%

(oral), 91.6% (dermal), 91.6% (inhalation)

**GHS label elements** 

**Hazard pictograms** 



Signal word : Danger

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Product code PR 1764 B 2 Part B
Product name PR 1764 B 2 Part B

### Section 2. Hazards identification

**Hazard statements** 

: May cause an allergic skin reaction.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause cancer.

May damage fertility or the unborn child.

Causes damage to organs through prolonged or repeated exposure.

**Precautionary statements** 

**Prevention** 

: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Wear respiratory protection. Do not breathe dust. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.

Response

: IF exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor. Wash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention.

Storage

: Store locked up.

**Disposal** 

: Dispose of contents and container in accordance with all local, regional, national and international regulations.

Supplemental label elements

: Sanding and grinding dusts may be harmful if inhaled. Avoid contact with skin and clothing. Wash thoroughly after handling. Emits toxic fumes when heated.

Hazards not otherwise classified

: Prolonged or repeated contact may dry skin and cause irritation.

### Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Product name : PR 1764 B 2 Part B

Ingredient name	%	CAS number
Nickel	≥20 - ≤50	7440-02-0
Natural graphite	≥20 - ≤50	7782-42-5
toluene	≥1.0 - ≤5.0	108-88-3
cobalt	<1.0	7440-48-4
2,2'-thiodiethanethiol	<1.0	3570-55-6

SUB codes represent substances without registered CAS Numbers.

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

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Product code PR 1764 B 2 Part B
Product name PR 1764 B 2 Part B

#### Section 4. First aid measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

#### **Description of necessary first aid measures**

**Eye contact**: Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids

apart for at least 10 minutes and seek immediate medical advice.

**Inhalation** : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is

irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained

personnel.

**Skin contact**: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water

or use recognized skin cleanser. Do NOT use solvents or thinners.

Ingestion : If swallowed, seek medical advice immediately and show this container or label. Keep

person warm and at rest. Do NOT induce vomiting.

#### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

**Eye contact**: No known significant effects or critical hazards.

Inhalation : May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin contact : Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin

reaction.

**Ingestion**: No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

Eye contact : No specific data.

**Inhalation** : Adverse symptoms may include the following:

wheezing and breathing difficulties

asthma

reduced fetal weight increase in fetal deaths skeletal malformations

**Skin contact**: Adverse symptoms may include the following:

irritation redness dryness cracking

reduced fetal weight increase in fetal deaths skeletal malformations

**Ingestion** : Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

#### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

**Specific treatments**: No specific treatment.

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Product code PR 1764 B 2 Part B

Date of issue 10 June 2021

Version 14.02

Product name PR 1764 B 2 Part B

### Section 4. First aid measures

**Protection of first-aiders** 

: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

### Section 5. Fire-fighting measures

#### **Extinguishing media**

Suitable extinguishing

media

Unsuitable extinguishing

media

: Use an extinguishing agent suitable for the surrounding fire.

: None known.

Specific hazards arising from the chemical

Hazardous thermal decomposition products

: No specific fire or explosion hazard.

 Decomposition products may include the following materials: carbon oxides sulfur oxides

metal oxide/oxides

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** 

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

#### Methods and materials for containment and cleaning up

**Small spill** 

: Move containers from spill area. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

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Product code PR 1764 B 2 Part B Product name PR 1764 B 2 Part B

### Section 6. Accidental release measures

#### Large spill

: Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

### Section 7. Handling and storage

#### Precautions for safe handling

#### **Protective measures**

: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

#### **Special precautions**

Ingestion of product or cured coating may be harmful. If this material is part of a multiple component system, read the Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.

#### Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

## including any incompatibilities

Conditions for safe storage, : Do not store below the following temperature: 5°C (41°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

### Section 8. Exposure controls/personal protection

#### **Control parameters**

#### Occupational exposure limits

Ingredient name	Exposure limits
Nickel	ACGIH TLV (United States, 3/2020).  TWA: 1.5 mg/m³ 8 hours. Form: Inhalable fraction  OSHA PEL (United States, 5/2018).
Natural graphite	TWA: 1 mg/m³, (as Ni) 8 hours.  OSHA PEL (United States).  TWA: 5 mg/m³ Form: Respirable  TWA: 10 mg/m³
<u> </u>	United States Page: 5/14

### Section 8. Exposure controls/personal protection

Product name PR 1764 B 2 Part B

ACGIH TLV (United States, 3/2020). TWA: 2 mg/m<sup>3</sup> 8 hours. Form: Respirable OSHA PEL (United States, 5/2018). TWA: 5 mg/m<sup>3</sup> 8 hours. Form: Respirable TWA: 15 mg/m<sup>3</sup> 8 hours. Form: Total dust OSHA PEL Z3 (United States, 6/2016). TWA: 15 mppcf 8 hours. OSHA PEL Z2 (United States, 2/2013). toluene AMP: 500 ppm 10 minutes. CEIL: 300 ppm TWA: 200 ppm 8 hours. ACGIH TLV (United States, 3/2020). TWA: 20 ppm 8 hours. cobalt OSHA PEL (United States, 5/2018). TWA: 0.1 mg/m<sup>3</sup>, (as Co) 8 hours. ACGIH TLV (United States, 3/2020). Skin sensitizer. Inhalation sensitizer. TWA: 0.02 mg/m<sup>3</sup>, (as Co) 8 hours. Form: Inorganic TWA: 0.005 mg/m<sup>3</sup> 8 hours. Form: Thoracic fraction

#### Key to abbreviations

S = Acceptable Maximum Peak = Potential skin absorption ACGIH = American Conference of Governmental Industrial Hygienists. SR = Respiratory sensitization С = Ceiling Limit SS = Skin sensitization F = Fume STEL = Short term Exposure limit values IPEL = Internal Permissible Exposure Limit = Total dust TD = Occupational Safety and Health Administration. TLV = Threshold Limit Value OSHA = Respirable TWA = Time Weighted Average = OSHA 29 CFR 1910.1200 Subpart Z - Toxic and Hazardous Substances Ζ

#### Consult local authorities for acceptable exposure limits.

procedures

2,2'-thiodiethanethiol

**Recommended monitoring**: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

None.

Appropriate engineering controls

: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**Environmental exposure** controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### **Individual protection measures**

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### Section 8. Exposure controls/personal protection

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** 

: Safety glasses with side shields.

Skin protection

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Gloves

: butyl rubber

**Body protection** 

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

: Use an air-fed respirator unless a site-specific assessment determines that an air-fed respirator is not necessary, in which case the results of the risk assessment should be utilized to determine whether respiratory protection is necessary and what type of protection is appropriate. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

The respiratory protection shall be in accordance to 29 CFR 1910.134.

### Section 9. Physical and chemical properties

#### **Appearance**

Physical state : Solid.
Color : Gray.

Odor : Not available.
Odor threshold : Not available.
pH : Not applicable.
Melting point : Not available.
Boiling point : Not available.

Flash point : Closed cup: Not applicable.

Auto-ignition temperature: Not applicable.Decomposition temperature: Not available.Flammability (solid, gas): Not available.Lower and upper explosive: Not applicable.

(flammable) limits

**Evaporation rate** : Not available.

United States

Product name PR 1764 B 2 Part B

### Section 9. Physical and chemical properties

Vapor pressure : Not available.
Vapor density : Not applicable.

Relative density : 2.11

Density ( lbs / gal ) : 17.61

**Solubility** : Insoluble in the following materials: cold water.

Partition coefficient: n-

octanol/water

: Not applicable.

Viscosity : Kinematic (40°C (104°F)): Not applicable.

**VOC** : 92 g/l % **Solid**. (w/w) : 95.63

### Section 10. Stability and reactivity

**Reactivity**: No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability**: The product is stable.

Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to avoid** : When exposed to high temperatures may produce hazardous decomposition products.

Refer to protective measures listed in sections 7 and 8.

**Incompatible materials** : Keep away from the following materials to prevent strong exothermic reactions:

oxidizing agents, strong alkalis, strong acids.

**Hazardous decomposition** 

products

: Depending on conditions, decomposition products may include the following materials:

carbon oxides sulfur oxides metal oxide/oxides

### Section 11. Toxicological information

#### Information on toxicological effects

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
toluene	LC50 Inhalation Vapor	Rat	49 g/m³	4 hours
	LD50 Dermal	Rabbit	8.39 g/kg	-
	LD50 Oral	Rat	5580 mg/kg	-
cobalt	LD50 Oral	Rat	550 mg/kg	-
2,2'-thiodiethanethiol	LD50 Oral	Rat	200 mg/kg	-

**Conclusion/Summary** 

Irritation/Corrosion

**Conclusion/Summary** 

Skin

: There are no data available on the mixture itself.

: 1,3-Propanediol, 2-ethyl-2-(hydroxymethyl)-, polymer with 2-(5-hexenylthio) ethanol, 2-mercaptoethanol-propylene oxide reaction products, 2,2'-thiobis (ethanol) and 2,2'-thiobis(ethanethiol): On basis of test data: Non-irritating to the skin.

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Product name PR 1764 B 2 Part B

### **Section 11. Toxicological information**

Eyes: 1,3-Propanediol, 2-ethyl-2-(hydroxymethyl)-, polymer with 2-(5-hexenylthio)

ethanol, 2-mercaptoethanol-propylene oxide reaction products, 2,2'-thiobis (ethanol) and 2,2'-thiobis(ethanethiol): On basis of test data: Non-irritating to the

eyes.

Respiratory

: There are no data available on the mixture itself.

**Sensitization** 

**Conclusion/Summary** 

Skin : 1,3-Propanediol, 2-ethyl-2-(hydroxymethyl)-, polymer with 2-(5-hexenylthio)

ethanol, 2-mercaptoethanol-propylene oxide reaction products, 2,2'-thiobis (ethanol) and 2,2'-thiobis(ethanethiol): On basis of test data: Non-sensitizer to skin.

**Respiratory**: There are no data available on the mixture itself.

**Mutagenicity** 

Conclusion/Summary : 1,3-Propanediol, 2-ethyl-2-(hydroxymethyl)-, polymer with 2-(5-hexenylthio)

ethanol, 2-mercaptoethanol-propylene oxide reaction products, 2,2'-thiobis

(ethanol) and 2,2'-thiobis(ethanethiol): Not mutagenic in Ames test.

**Carcinogenicity** 

**Conclusion/Summary**: There are no data available on the mixture itself.

**Classification** 

Product/ingredient name	OSHA	IARC	NTP
Nickel	-	2B	Reasonably anticipated to be a human carcinogen.
toluene	-	3	-
cobalt	-	2B	Reasonably anticipated to be a human carcinogen.

#### **Carcinogen Classification code:**

IARC: 1, 2A, 2B, 3, 4

NTP: Known to be a human carcinogen; Reasonably anticipated to be a human carcinogen

OSHA: +

Not listed/not regulated: -

Reproductive toxicity

**Conclusion/Summary**: There are no data available on the mixture itself.

**Teratogenicity** 

**Conclusion/Summary**: There are no data available on the mixture itself.

Specific target organ toxicity (single exposure)

Name	3 3 3	Route of exposure	Target organs
toluene	Category 3	-	Narcotic effects

#### Specific target organ toxicity (repeated exposure)

Name	,	Route of exposure	Target organs
Nickel	Category 1	inhalation	-
toluene	Category 2	-	-
cobalt	Category 2	-	-

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Product name PR 1764 B 2 Part B

### **Section 11. Toxicological information**

<u>Target organs</u>: Contains material which causes damage to the following organs: brain.

Contains material which may cause damage to the following organs: blood, kidneys, lungs, the reproductive system, liver, heart, cardiovascular system, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea, nose/sinuses.

#### **Aspiration hazard**

Name	Result
toluene	ASPIRATION HAZARD - Category 1

#### Information on the likely routes of exposure

#### Potential acute health effects

**Eye contact**: No known significant effects or critical hazards.

Inhalation : May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Skin contact**: Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin

reaction.

**Ingestion**: No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

Eye contact : No specific data.

**Inhalation** : Adverse symptoms may include the following:

wheezing and breathing difficulties

asthma

reduced fetal weight increase in fetal deaths skeletal malformations

**Skin contact**: Adverse symptoms may include the following:

irritation redness dryness cracking

reduced fetal weight increase in fetal deaths skeletal malformations

**Ingestion** : Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

#### Delayed and immediate effects and also chronic effects from short and long term exposure

#### **Conclusion/Summary**

There are no data available on the mixture itself. Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

#### **Short term exposure**

United States Page: 10/14

Product name PR 1764 B 2 Part B

### Section 11. Toxicological information

**Potential immediate** 

effects

: There are no data available on the mixture itself.

**Potential delayed effects** 

: There are no data available on the mixture itself.

Long term exposure

Potential immediate

: There are no data available on the mixture itself.

effects

Potential delayed effects : There are no data available on the mixture itself.

Potential chronic health effects

General : Causes damage to organs through prolonged or repeated exposure. Prolonged or

repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to

very low levels.

**Carcinogenicity** : May cause cancer. Risk of cancer depends on duration and level of exposure.

**Mutagenicity**: No known significant effects or critical hazards.

**Reproductive toxicity**: May damage fertility or the unborn child.

#### **Numerical measures of toxicity**

#### **Acute toxicity estimates**

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	(gases)	(vapors)	Inhalation (dusts and mists) (mg/ l)
toluene	5580 550	8390 N/A	N/A N/A	49 N/A	N/A N/A
2,2'-thiodiethanethiol	200	N/A	N/A	N/A	N/A

# Section 12. Ecological information

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
2,2'-thiodiethanethiol	Acute LC50 0.12 mg/l	Fish	96 hours

#### Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
toluene 2,2'-thiodiethanethiol	-		Readily Not readily

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
toluene	2.73	8.32	low

#### **Mobility in soil**

United States Page: 11
------------------------

Product name PR 1764 B 2 Part B

### Section 12. Ecological information

Soil/water partition coefficient (Koc)

: Not available.

### Section 13. Disposal considerations

**Disposal methods** 

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

### 14. Transport information

	DOT	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class (es)	-	-	-
Packing group	-	-	-
<b>Environmental hazards</b>	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.
Product RQ (lbs)	210.77	Not applicable.	Not applicable.
RQ substances	(Nickel, thiram (ISO))	Not applicable.	Not applicable.

#### **Additional information**

**DOT** : Package sizes shipped in quantities less than the product reportable quantity are not subject to the

RQ (reportable quantity) transportation requirements.

IMDG : None identified.IATA : None identified.

Special precautions for user : Transport within user's premises: always transport in closed containers that are

upright and secure. Ensure that persons transporting the product know what to do in

the event of an accident or spillage.

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Product name PR 1764 B 2 Part B

### 14. Transport information

**Transport in bulk according**: Not applicable.

to IMO instruments

### **Section 15. Regulatory information**

#### **United States**

United States inventory (TSCA 8b): All components are active or exempted.

United States - TSCA 5(e) - Substances consent order:

carbon Listed

**SARA 302/304** 

SARA 304 RQ : Not applicable.

Composition/information on ingredients

No products were found.

**SARA 311/312** 

Classification : RESPIRATORY SENSITIZATION - Category 1

SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 1B

TOXIC TO REPRODUCTION - Category 1B

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1

**HNOC** - Defatting irritant

#### **Composition/information on ingredients**

Name	%	Classification
Nickel	≥20 - ≤50	SKIN SENSITIZATION - Category 1B CARCINOGENICITY - Category 1B SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1
toluene	≥1.0 - ≤5.0	FLAMMABLE LIQUIDS - Category 2 SKIN IRRITATION - Category 2 TOXIC TO REPRODUCTION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED
cobalt	<1.0	EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 1 HNOC - Defatting irritant ACUTE TOXICITY (oral) - Category 4 RESPIRATORY SENSITIZATION - Category 1A SKIN SENSITIZATION - Category 1B GERM CELL MUTAGENICITY - Category 2 CARCINOGENICITY - Category 1B TOXIC TO REPRODUCTION - Category 1B
2,2'-thiodiethanethiol	<1.0	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ACUTE TOXICITY (oral) - Category 3 SKIN SENSITIZATION - Category 1A

#### **SARA 313**

United States Page: 13/14

Product name PR 1764 B 2 Part B

### Section 15. Regulatory information

Supplier notification

Chemical name

Nickel

toluene

concentration

7440-02-0

30 - 60

108-88-3

1 - 5

cobalt

7440-48-4

0.1 - 1

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

#### California Prop. 65

↑ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

### Section 16. Other information

Hazardous Material Information System (U.S.A.)

Health: 2 \* Flammability: 0 Physical hazards: 0

(\*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on MSDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Association (U.S.A.)

Health: 2 Flammability: 0 Instability: 0

Date of previous issue : 6/10/2021
Organization that prepared : EHS

the SDS

**Key to abbreviations** : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973

as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available SGG = Segregation Group UN = United Nations

#### Indicates information that has changed from previously issued version.

#### **Disclaimer**

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.

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# SAFETY DATA SHEET



Date of issue/Date of revision 10 June 2021

Version 16

### **Section 1. Identification**

**Product name** : PR 148 BLUE ADH PRO **Product code** : PR 148 BLUE ADH PRO

Other means of identification

: Not available.

**Product type** 

: Liquid.

Relevant identified uses of the substance or mixture and uses advised against

**Product use** : Industrial applications.

Use of the substance/

mixture

: Coating. Paints. Painting-related materials.

Uses advised against : Not applicable.

Manufacturer : PPG Aerospace PRC-DeSoto

12780 San Fernando Road

Sylmar, CA 91342 Phone: 818 362 6711

**Emergency telephone** 

number

: (412) 434-4515 (U.S.) (514) 645-1320 (Canada) 01-800-00-21-400 (Mexico)

### Section 2. Hazards identification

**OSHA/HCS** status

: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture : FLAMMABLE LIQUIDS - Category 2 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A

TOXIC TO REPRODUCTION - Category 2

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -

Category 3

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 7.3%

(oral), 15.2% (dermal), 25.4% (inhalation)

**GHS label elements** 

**Hazard pictograms** 







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Product code PR 148 BLUE ADH PRO
Product name PR 148 BLUE ADH PRO

# Section 2. Hazards identification

Signal word

: Danger

**Hazard statements** 

: Highly flammable liquid and vapor.

Causes skin irritation.

Causes serious eye irritation.

May cause drowsiness or dizziness.

Suspected of damaging fertility or the unborn child.

May cause damage to organs through prolonged or repeated exposure.

#### **Precautionary statements**

**Prevention** 

: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Wash thoroughly after handling.

Response

IF exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.

**Storage** 

: Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.

**Disposal** 

: Dispose of contents and container in accordance with all local, regional, national and international regulations.

Supplemental label elements

: Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing. Wash thoroughly after handling. Emits toxic fumes when heated.

Hazards not otherwise classified

: Prolonged or repeated contact may dry skin and cause irritation.

# Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

**Product name** 

: PR 148 BLUE ADH PRO

Ingredient name	%	CAS number
toluene	≥20 - ≤50	108-88-3
Isopropyl alcohol	≥10 - ≤20	67-63-0
Solvent naphtha (petroleum), light aliph.	≥10 - ≤20	64742-89-8
butanone	≥10 - ≤20	78-93-3
ethyl acetate	≥10 - ≤20	141-78-6
heptane	≥5.0 - ≤10	142-82-5
Naphtha (petroleum), hydrotreated light	≥1.0 - ≤5.0	64742-49-0
methylcyclohexane	≥1.0 - ≤5.0	108-87-2
titanium tetrakis(2-ethylhexanolate)	≥1.0 - ≤5.0	1070-10-6

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Product code PR 148 BLUE ADH PRO

Date of issue 10 June 2021

Version 16

Product name PR 148 BLUE ADH PRO

### Section 3. Composition/information on ingredients

SUB codes represent substances without registered CAS Numbers.

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

#### **Description of necessary first aid measures**

**Eye contact**: Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids

apart for at least 10 minutes and seek immediate medical advice.

**Inhalation** : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is

irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained

personnel.

Skin contact : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water

or use recognized skin cleanser. Do NOT use solvents or thinners.

Ingestion : If swallowed, seek medical advice immediately and show this container or label. Keep

person warm and at rest. Do NOT induce vomiting.

#### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

**Eye contact** : Causes serious eye irritation.

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or

dizziness.

**Skin contact**: Causes skin irritation. Defatting to the skin.

**Ingestion** : Can cause central nervous system (CNS) depression.

Over-exposure signs/symptoms

**Eye contact** : Adverse symptoms may include the following:

pain or irritation

watering redness

**Inhalation** : Adverse symptoms may include the following:

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations

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Product code PR 148 BLUE ADH PRO

Product name PR 148 BLUE ADH PRO

#### Section 4. First aid measures

**Skin contact**: Adverse symptoms may include the following:

irritation redness dryness cracking

reduced fetal weight increase in fetal deaths skeletal malformations

**Ingestion** : Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

#### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

Specific treatments: No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. If it is

suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to

give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

### Section 5. Fire-fighting measures

#### **Extinguishing media**

Suitable extinguishing

media

**Unsuitable extinguishing** 

media

: Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

: Do not use water jet.

Specific hazards arising from the chemical

: Highly flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard. Fire water contaminated with this material must be contained and prevented from being discharged to appropriate appropriate and residue.

to any waterway, sewer or drain.

Hazardous thermal decomposition products

: Decomposition products may include the following materials: carbon oxides

metal oxide/oxides

Special protective actions for fire-fighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

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### Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders

: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** 

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

#### Methods and materials for containment and cleaning up

**Small spill** 

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

### Section 7. Handling and storage

#### Precautions for safe handling

**Protective measures** 

Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

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Product name	DD 1/18 BI HE ADH DDO	

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### Section 7. Handling and storage

#### Special precautions

: Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Vapors are heavier than air and may spread along floors. If this material is part of a multiple component system, read the Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.

#### Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

#### Conditions for safe storage, including any incompatibilities

Do not store above the following temperature: 50°C (122°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

### Section 8. Exposure controls/personal protection

#### **Control parameters**

#### Occupational exposure limits

Ingredient name	Exposure limits
<b>v</b> luene	OSHA PEL Z2 (United States, 2/2013).
	AMP: 500 ppm 10 minutes.
	CEIL: 300 ppm
	TWA: 200 ppm 8 hours.
	ACGIH TLV (United States, 3/2020).
	TWA: 20 ppm 8 hours.
sopropyl alcohol	ACGIH TLV (United States, 3/2020).
	STEL: 400 ppm 15 minutes.
	TWA: 200 ppm 8 hours.
	OSHA PEL (United States, 5/2018).
	TWA: 980 mg/m³ 8 hours.
	TWA: 400 ppm 8 hours.
Solvent naphtha (petroleum), light aliph.	None.
butanone	ACGIH TLV (United States, 3/2020).
	STEL: 885 mg/m³ 15 minutes.
	STEL: 300 ppm 15 minutes.
	TWA: 590 mg/m³ 8 hours.
	TWA: 200 ppm 8 hours.
	OSHA PEL (United States, 5/2018).
	TWA: 590 mg/m³ 8 hours.
	TWA: 200 ppm 8 hours.
ethyl acetate	ACGIH TLV (United States, 3/2020).
	TWA: 1440 mg/m <sup>3</sup> 8 hours.
	TWA: 400 ppm 8 hours.
	OSHA PEL (United States, 5/2018).
	TWA: 1400 mg/m <sup>3</sup> 8 hours.
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# Section 8. Exposure controls/personal protection

TWA: 400 ppm 8 hours. heptane

ACGIH TLV (United States, 3/2020).

STEL: 2050 mg/m<sup>3</sup> 15 minutes. STEL: 500 ppm 15 minutes. TWA: 1640 mg/m<sup>3</sup> 8 hours. TWA: 400 ppm 8 hours.

OSHA PEL (United States, 5/2018).

TWA: 2000 mg/m<sup>3</sup> 8 hours. TWA: 500 ppm 8 hours.

OSHA PEL (United States, 1/2012).

TWA: 500 ppm

ACGIH TLV (United States, 3/2020).

TWA: 1610 mg/m<sup>3</sup> 8 hours. TWA: 400 ppm 8 hours.

OSHA PEL (United States, 5/2018).

TWA: 2000 mg/m<sup>3</sup> 8 hours. TWA: 500 ppm 8 hours.

titanium tetrakis(2-ethylhexanolate) None.

Key to abbreviations

Α = Acceptable Maximum Peak ACGIH = American Conference of Governmental Industrial Hygienists.

С = Ceiling Limit

F IPEL = Internal Permissible Exposure Limit

Naphtha (petroleum), hydrotreated light

methylcyclohexane

= Fume

OSHA = Occupational Safety and Health Administration.

= Respirable R

= OSHA 29 CFR 1910.1200 Subpart Z - Toxic and Hazardous Substances

S = Potential skin absorption SR = Respiratory sensitization

SS = Skin sensitization

STEL = Short term Exposure limit values

TD = Total dust

TLV = Threshold Limit Value TWA = Time Weighted Average

### Consult local authorities for acceptable exposure limits.

# procedures

**Recommended monitoring**: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

### Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

### **Environmental exposure** controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### **Individual protection measures**

#### **Hygiene measures**

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

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### Section 8. Exposure controls/personal protection

**Eye/face protection** 

Skin protection

: Chemical splash goggles.

**Hand protection** 

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Gloves** 

: For prolonged or repeated handling, use the following type of gloves:

Recommended: butyl rubber, nitrile rubber

**Body protection** 

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear antistatic protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** 

: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. The respiratory protection shall be in accordance to 29 CFR 1910.134.

### Section 9. Physical and chemical properties

**Appearance** 

Physical state : Liquid.
Color : Blue.

Odor : Not available.
Odor threshold : Not available.
pH : Not applicable.
Melting point : Not available.

**Boiling point** : 77.22 to 248.89°C (171 to 480°F)

Flash point : Closed cup: -5°C (23°F)

Auto-ignition temperature: Not available.Decomposition temperature: Not available.Flammability (solid, gas): Not available.Lower and upper explosive: Not available.

(flammable) limits

Evaporation rate : Not available.

Vapor pressure : Not available.

Vapor density : Not available.

United States Page: 8/17

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Product name PR 148 BLUE ADH PRO

### Section 9. Physical and chemical properties

Relative density : 0.82 Density ( lbs / gal ) : 6.84

**Solubility** : Insoluble in the following materials: cold water.

Partition coefficient: n-

octanol/water

: Not applicable.

Viscosity : Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)

**VOC** : 802 g/l

# Section 10. Stability and reactivity

**Reactivity**: No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability**: The product is stable.

Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to avoid** : When exposed to high temperatures may produce hazardous decomposition products.

Refer to protective measures listed in sections 7 and 8.

**Incompatible materials** : Keep away from the following materials to prevent strong exothermic reactions:

oxidizing agents, strong alkalis, strong acids.

Hazardous decomposition

products

: Depending on conditions, decomposition products may include the following materials:

carbon oxides metal oxide/oxides

### Section 11. Toxicological information

### **Information on toxicological effects**

### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
toluene	LC50 Inhalation Vapor	Rat	49 g/m³	4 hours
	LD50 Dermal	Rabbit	8.39 g/kg	-
	LD50 Oral	Rat	5580 mg/kg	-
Isopropyl alcohol	LC50 Inhalation Vapor	Rat	72600 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	12800 mg/kg	-
	LD50 Oral	Rat	5045 mg/kg	-
Solvent naphtha (petroleum), light aliph.	LC50 Inhalation Vapor	Rat	>20 mg/l	4 hours
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
butanone	LD50 Dermal	Rabbit	6480 mg/kg	-
	LD50 Oral	Rat	2737 mg/kg	-
ethyl acetate	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	5620 mg/kg	-
heptane	LC50 Inhalation Gas.	Rat	48000 ppm	4 hours
	LC50 Inhalation Vapor	Rat	103 g/m³	4 hours
Naphtha (petroleum),	LD50 Oral	Rat	>2 g/kg	-

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### **Section 11. Toxicological information**

hydrotreated light methylcyclohexane titanium tetrakis	LD50 Oral LD50 Dermal	4 g/kg >2.6 g/kg	-	
(2-ethylhexanolate)	LD50 Oral	3.73 g/kg	-	

**Conclusion/Summary** 

: There are no data available on the mixture itself.

**Irritation/Corrosion** 

**Conclusion/Summary** 

Skin: There are no data available on the mixture itself.Eyes: There are no data available on the mixture itself.Respiratory: There are no data available on the mixture itself.

**Sensitization** 

**Conclusion/Summary** 

Skin : There are no data available on the mixture itself.

Respiratory : There are no data available on the mixture itself.

**Mutagenicity** 

**Conclusion/Summary**: There are no data available on the mixture itself.

**Carcinogenicity** 

**Conclusion/Summary**: There are no data available on the mixture itself.

**Classification** 

Product/ingredient name	OSHA	IARC	NTP
toluene	-	3	-
Isopropyl alcohol	-	3	-

Carcinogen Classification code:

IARC: 1, 2A, 2B, 3, 4

NTP: Known to be a human carcinogen; Reasonably anticipated to be a human carcinogen

OSHA: +

Not listed/not regulated: -

Reproductive toxicity

**Conclusion/Summary**: There are no data available on the mixture itself.

**Teratogenicity** 

**Conclusion/Summary**: There are no data available on the mixture itself.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
toluene	Category 3	-	Narcotic effects
Isopropyl alcohol	Category 3	-	Narcotic effects
Solvent naphtha (petroleum), light aliph.	Category 3	-	Narcotic effects
butanone	Category 3	-	Narcotic effects
ethyl acetate	Category 3	-	Narcotic effects
heptane	Category 3	-	Narcotic effects
Naphtha (petroleum), hydrotreated light	Category 3	-	Narcotic effects
methylcyclohexane	Category 3	-	Narcotic effects

#### Specific target organ toxicity (repeated exposure)

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### **Section 11. Toxicological information**

Name	Category	Route of exposure	Target organs
toluene	Category 2	-	-

**Target organs** 

: Contains material which causes damage to the following organs: brain, central nervous system (CNS).

Contains material which may cause damage to the following organs: blood, kidneys, lungs, the nervous system, the reproductive system, liver, heart, spleen, peripheral nervous system, upper respiratory tract, skin, eye, lens or cornea.

#### **Aspiration hazard**

Name	Result
toluene Solvent naphtha (petroleum), light aliph. heptane Naphtha (petroleum), hydrotreated light methylcyclohexane	ASPIRATION HAZARD - Category 1

#### Information on the likely routes of exposure

### Potential acute health effects

**Eye contact** : Causes serious eye irritation.

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or

dizziness.

**Skin contact**: Causes skin irritation. Defatting to the skin.

Ingestion : Can cause central nervous system (CNS) depression.

Over-exposure signs/symptoms

**Eye contact**: Adverse symptoms may include the following:

pain or irritation watering

redness

**Inhalation** : Adverse symptoms may include the following:

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations

**Skin contact**: Adverse symptoms may include the following:

irritation redness dryness cracking

reduced fetal weight increase in fetal deaths skeletal malformations

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### **Section 11. Toxicological information**

**Ingestion** : Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

#### Delayed and immediate effects and also chronic effects from short and long term exposure

**Conclusion/Summary** 

There are no data available on the mixture itself. Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone. If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Short term exposure

**Potential immediate** 

effects

There are no data available on the mixture itself.There are no data available on the mixture itself.

Potential delayed effects

Potential delayed effects

Long term exposure

Potential immediate

effects

There are no data available on the mixture itself.

: There are no data available on the mixture itself.

Potential chronic health effects

General : May cause damage to organs through prolonged or repeated exposure. Prolonged or

repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Reproductive toxicity : Suspected of damaging fertility or the unborn child.

#### Numerical measures of toxicity

#### **Acute toxicity estimates**

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
PR 148 BLUE ADH PRO	11365.8	12134	N/A	N/A	N/A
toluene	5580	8390	N/A	49	N/A
Isopropyl alcohol	5045	12800	N/A	72.6	N/A
Solvent naphtha (petroleum), light aliph.	N/A	2500	N/A	N/A	N/A
butanone	2737	6480	N/A	N/A	N/A
ethyl acetate	5620	N/A	N/A	N/A	N/A
heptane	N/A	N/A	48000	103	N/A
Naphtha (petroleum), hydrotreated light	2500	N/A	N/A	N/A	N/A
methylcyclohexane	4000	N/A	N/A	N/A	N/A
titanium tetrakis(2-ethylhexanolate)	3730	2500	N/A	N/A	N/A

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## **Section 11. Toxicological information**

### **Section 12. Ecological information**

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
Isopropyl alcohol	Acute EC50 10100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours

#### Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
toluene	-	-	Readily

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
koluene	2.73	8.32	low
Isopropyl alcohol	0.05	-	low
butanone	0.3	-	low
ethyl acetate	0.68	-	low
heptane	4.66	-	high
Naphtha (petroleum),	2.2 to 5.2	-	low
hydrotreated light			
methylcyclohexane	3.61	186.21	low

### **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

### Section 13. Disposal considerations

### **Disposal methods**

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

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Product code PR 148 BLUE ADH PRO

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### Section 13. Disposal considerations

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

### 14. Transport information

	DOT	IMDG	IATA
UN number	UN1993	UN1993	UN1993
UN proper shipping name	FLAMMABLE LIQUID, N.O.S.	FLAMMABLE LIQUID, N.O.S.	FLAMMABLE LIQUID, N.O.S.
	(toluene, Isopropyl alcohol)	(toluene, Isopropyl alcohol)	(toluene, Isopropyl alcohol)
Transport hazard class (es)	3	3	3
Packing group	II	II	II
Environmental hazards	No.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	(cyclohexane, heptane)	Not applicable.
Product RQ (lbs)	4273.6	Not applicable.	Not applicable.
RQ substances	(toluene, butanone)	Not applicable.	Not applicable.

#### Additional information

DOT

: Package sizes shipped in quantities less than the product reportable quantity are not subject to the

RQ (reportable quantity) transportation requirements.

**IMDG** 

: The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.

**IATA** 

: The environmentally hazardous substance mark may appear if required by other transportation

regulations.

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according: Not applicable.

to IMO instruments

### Section 15. Regulatory information

#### **United States**

United States inventory (TSCA 8b): All components are active or exempted.

**SARA 302/304** 

**SARA 304 RQ** : Not applicable. Composition/information on ingredients

No products were found.

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Product code PR 148 BLUE ADH PRO Product name PR 148 BLUE ADH PRO

### **Section 15. Regulatory information**

### **SARA 311/312**

Classification

: FLAMMABLE LIQUIDS - Category 2 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A

TOXIC TO REPRODUCTION - Category 2

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -

Category 3

SPEČIFÍC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

HNOC - Defatting irritant

### **Composition/information on ingredients**

Name	%	Classification
toluene	≥20 - ≤50	FLAMMABLE LIQUIDS - Category 2 SKIN IRRITATION - Category 2 TOXIC TO REPRODUCTION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 1
Isopropyl alcohol	≥10 - ≤20	HNOC - Defatting irritant FLAMMABLE LIQUIDS - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
Solvent naphtha (petroleum), light aliph.	≥10 - ≤20	SKIN IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 1 HNOC - Defatting irritant
butanone	≥10 - ≤20	FLAMMABLE LIQUIDS - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 HNOC - Defatting irritant
ethyl acetate	≥10 - ≤20	FLAMMABLE LIQUIDS - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 HNOC - Defatting irritant
heptane	≥5.0 - ≤10	FLAMMABLE LIQUIDS - Category 2 SKIN IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 1 HNOC - Defatting irritant
Naphtha (petroleum), hydrotreated light	≥1.0 - ≤5.0	FLAMMABLE LIQUIDS - Category 3 SKIN IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 1 HNOC - Defatting irritant

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### Section 15. Regulatory information

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	methylcyclohexane		FLAMMABLE LIQUIDS - Category 2	
			SKIN IRRITATION - Category 2	
			SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)	
			(Narcotic effects) - Category 3	
			ASPIRATION HAZARD - Category 1	
			HNOC - Defatting irritant	
	titanium tetrakis	≥1.0 - ≤5.0	SKIN IRRITATION - Category 2	
	(2-ethylhexanolate)		EYE IRRITATION - Category 2A	

**SARA 313** 

<u>Chemical name</u> <u>CAS number</u> <u>Concentration</u>

**Supplier notification**: toluene 108-88-3 10 - 30

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

#### California Prop. 65

★ WARNING: Reproductive Harm - www.P65Warnings.ca.gov.

### Section 16. Other information

Hazardous Material Information System (U.S.A.)

Health: 2 \* Flammability: 3 Physical hazards: 0

(\*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on MSDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

**National Fire Protection Association (U.S.A.)** 

Health: 2 Flammability: 3 Instability: 0

Date of previous issue : 2/17/2021
Organization that prepared : EHS

the SDS

**Key to abbreviations** : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973

as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available SGG = Segregation Group UN = United Nations

Indicates information that has changed from previously issued version.

**Disclaimer** 

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Product code PR 148 BLUE ADH PRO
Product name PR 148 BLUE ADH PRO

Date of issue 10 June 2021

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### **Section 16. Other information**

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.

United States Page: 17/17

Product code PR 1764 B 2 Part A Date of issue 10 June 2021 Version 20.02

Product name PR 1764 B 2 Part A

### Section 16. Other information

Organization that prepared

the SDS

: EHS

**Key to abbreviations** : ATE = Acute Toxicity Estimate

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IATA = International Air Transport Association

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United States Page: 17/17