

Version 17.2 replaces Version 17.1 Revision date: 22.08.2018 According to (EU) No. 2015/830

IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE **SECTION 1 COMPANY / UNDERTAKING**

Product identifier: 1.1 **ZYGLO® ZP-9F - aerosol**

1.2 Relevant identified uses of the mixture and uses advised against:

> Relevant identified uses: Solvent developer used in fluorescent and

> > visible penetrant inspection.

This product is not recommended for any Uses advised against:

use other than the identified uses above.

Details of the supplier of the safety data sheet 1.3

> Manufacturer: Magnaflux® (A Division of ITW Ltd) Address:

Faraday Road, South Dorcan Industrial

Estate, Swindon, UK

Postcode: SN3 5HE

Telephone/fax number: Telephone: +44 (0)1793 524566

Fax: +44 (0)1793 490459 Web: www.eu.magnaflux.com

Email address of competent person support.eu@magnaflux.com

responsible for SDS:

National contact: None appointed.

1.4 **Emergency telephone number:** DURING OFFICE HOURS, CALL

T: +44 (0)1793 524566 (English only)

Office hours (GMT) Monday - Thursday 8am **Opening hours:**

- 5pm, Friday 8am - 4pm

OUT OF OFFICE HOURS, CALL

T: +44(0)203 394 9866

SECTION 2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

Classification according to Regulation **Physical and Chemical Hazard:**

Aerosol 1 H222, H229 (EC) No 1272/2008 (CLP): **Health Hazard:**

Eye Irrit. 2 H319 STOT SE 3 H336

Environmental Hazard:

None

Additional information EUH066

For full text of hazard statements and EU hazard statements see SECTION 16.

Supplied by: Sil-Mid Limited

Roman Park, Roman Way Coleshill, West Midlands B46 1HG. UK

T: 01675 432850 E: info@silmid.com

Emergency Telephone No. +44 (0)1675 432850 (Monday to Friday, 08:00 – 17:30 – GMT)

2.2 **Label Elements:**

Labelling according to regulation (EC) No 1272/2008 [CLP]

Hazard Pictograms:





Signal Word: Danger

Hazard Statement(s): H222: Extremely flammable aerosol. H229: Pressurised container: may burst if

heated.

H319: Causes serious eye irritation.

H336: May cause drowsiness or dizziness. P210: Keep away from heat, sparks, open flames and hot surfaces. No smoking. P211: Do not spray on an open flame or

other ignition source.

P251: Do not pierce or burn, even after use.

P261: Avoid breathing vapours.

P280: Wear protective gloves / protective clothing / eye protection / face protection. P410 + P412: Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

Supplementary Precautionary

Precautionary Statement(s):

Statement(s):

P264: Wash thoroughly after handling.

P271: Use only outdoors or in a well

ventilated area.

P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy

to do - continue rinsing.

P337+P313: If eye irritation persists get

medical advice/attention.

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated

clothing. Rinse skin with water.

P501: Dispose of contents/containers to hazardous waste or special collection point. EUH066: Repeated exposure may cause

skin dryness and cracking.

Acetone, Propan-2-ol

Supplementary Hazard Information

Hazard Determining Component(s)

2.3 Other hazards:

Pressurised container: protect from sunlight and do not expose to temperatures exceeding

Vapours can form explosive mixtures in air.

SECTION 3

COMPOSITION / INFORMATION ON INGREDIENTS

3.2 **Mixtures**

| Ingredient Name | CAS No | EC No | REACH Registration Number | % Weight | Classification according to Regulation (EC) No 1272/2008 [CLP] | Additional information |
|---|----------------|---------------|---------------------------------|-------------|--|------------------------|
| Acetone | 67-64-1 | 200- 662-2 | 01- 2119471330-49 | 55 – 80 | Flam. Liq 2 H225 Eye Irrit. 2 H319 STOT SE3 H336 | EUH066 |
| Propan-2-ol | 67-63-0 | 200- 661-7 | 01- 2119457558-25 | < 25 | Flam. Liq 2 H225 Eye Irrit. 2 H319 STOT SE3 H336 | - |
| Pentaerythritol | 115-77- 5 | 204- 104-9 | 01- 2119473985-20 | < 15 | Not classified | Has WEL |
| Hydrocarbons, C3-4-rich petroleum distillate petroleum gas (1.3 butadiene < 0.1%) | 68512- 91-4 | 270- 990-9 | (1) | 10-35 | Press. Gas H280 Flam. Gas 1 H220 | (2) |

Exempted from the obligation to register in accordance with art.2(7)(a) of REACH Regulation No 1907/2006

Note: Hazard statement(s) in this section apply only to raw materials, not necessarily to finished products.

^{*}See Section 16 for hazard statement(s) text in full.

| MEASURES |
|----------|
|) |

4.1 **Description of first aid measures:**

> General notes: If symptoms persist, seek medical attention.

Show this safety data sheet to the doctor in

attendance.

Following inhalation: Remove to fresh air. Keep at rest. If

unconscious place in the recovery position. If not breathing give artificial respiration. Seek medical attention if symptoms occur.

Following skin contact: Immediately remove contaminated clothing.

Flush with water, use soap if available. Contaminated clothing should be washed before re-use. Seek medical attention if

irritation persists.

Following eye contact: Flush eyes with large amounts of water for

at least 10 minutes. Check for and remove any contact lenses if easy to do. Continue rinsing. Seek medical attention if irritation

persists.

Following ingestion: Unlikely route of exposure. Do NOT induce

vomiting. Never give anything by mouth to an unconscious person. Rinse mouth thoroughly. Seek medical attention if

symptoms occur.

Self-protection of the first aider: No action shall be taken involving any

personal risk or without suitable training. If it is suspected that the mixture is still present, wear appropriate personal protective

equipment.

4.2 Most important symptoms, both acute and delayed:

Irritating to eyes. No delayed effects known.

4.3 Indication of any immediate medical attention and special treatment needed:

None known.

Not classified as carcinogen, less than 0.1% w/w 1,3 butadiene (EINECS no 203-450-8)

SECTION 5 FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media: Foam, carbon dioxide, dry powder or other

inert material.

Unsuitable extinguishing media: Do not use water jet.

5.2 Special hazards arising from the

substance or mixture:

Evacuate immediate area. Shut off 'fuel' to fire. If possible keep unaffected containers

cool with water spray.

Aerosols may explode in a fire.

Aerosol contents are extremely flammable.

Hazardous combustion products: Smoke, soot and oxides of carbon. Burning

vapour may give off toxic fumes.

5.3 Advice for fire-fighter:

Warn firefighters that aerosols are involved.

Self contained breathing apparatus and full protective clothing must be worn.

Water spray should be used to cool containers.

Fire water run-off must not be allowed to contaminate ground, or enter drains, sewers or

water courses.

SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

Suitable protective equipment (see Section 8) should be worn to prevent any

contamination of skin, eyes and personal clothing.

For non-emergency personnel: Remove ignition sources. Avoid breathing

vapours, mist or gas and ensure adequate

ventilation.

For emergency responders: Remove ignition source. Avoid breathing

vapours and ensure adequate ventilation. Keep unnecessary people at a safe

distance.

6.2 Environmental precautions:

Prevent liquid from entering drains, sewers and watercourses. Notify the Environment Agency or water authorities if a major spillage occurs. Prevent product contaminating soil.

6.3 Methods and material for containment and cleaning up:

Ventilate well. Eliminate sources of ignition. Take measure to prevent the build-up of

electrostatic charge.

For containment: Contain spillage, and then collect with non-

compustible absorbent material (e.g. Sand, earth, diatomaceous earth, vermiculite) and

place in a UN approved container for

disposal.

Large spills should be pumped (using an earthed explosion proof pump) into UN approved containers pending disposal.

Dispose or waste according to local/national

regulations.

For cleaning up: Rinse site with copious amounts of water,

which should not be allowed into drains,

sewers or watercourses.

Other information: No other information.

6.4 Reference to other sections:

For Personal Protective Equipment see Section 8. For disposal information see Section 13.

SECTION 7 HANDLING & STORAGE

7.1 Precautions for safer handling:

Protective Measures: Wear suitable protective clothing such as

chemical resistant gloves, apron and goggles/face mask to protect from splashes. Avoid contact with skin and eyes. Do not

breathe product spray or mist. Ensure adequate exhaust ventilation when in use.

Measures to prevent fire:

Aerosol contents are highly flammable and

volatile. Keep away from sources of ignition - no smoking. Take measures to prevent the build-up of electrostatic charge. Equipment should be earthed. Use

explosion proof electrical/ventilation/lighting equipment. Use only non-sparking tools.

Advice on general occupational Wash thoroughly after handling.

hygiene:

7.2 Conditions for safe storage, including any incompatibilities:

Technical measures and storage conditions:Store in original container in a cool dry area away from heat and sources of ignition.

Packaging materials: Store in original container.

Requirements for storage rooms and

vessels:

Pressurised container: protect from sunlight

and do not expose to temperatures

exceeding 50 °C.

Recommended storage temperature 10 °C

to 30 °C.

Further information on storage

conditions:

Rotate stock and check regularly for

damaged items.

7.3 Specific end use(s):

Recommendations: Use only for Non Destructive Testing (NDT)

applications.

Industrial sector specific solutions: See product data sheet for further

information.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters:

Occupational exposure limit values:

Occupational exposure figures have been set for some of the components of this preparation based on GESTIS International Limit Values or manufacturers' recommendation.

| | | Limit value - 8 hours | | Limit value | Limit value - short term | |
|--------------------------------------|---------------|-----------------------|--------|-------------|--------------------------|--|
| Ingredient name | Country | ppm | mg /m³ | ppm | mg /m³ | |
| Acetone | UK | 500 | 1210 | 1500 | 3620 | |
| | Germany (AGS) | 500 | 1200 | 1000 (1) | 2400 (1) | |
| | Sweden | 250 | 600 | 500 (1) | 1200 (1) | |
| | EU | 500 | 1210 | | | |
| Propan-2-ol | UK | 400 | 999 | 500 | 1250 | |
| | Germany (AGS) | 200 | 500 | 400 (1) | 1000 (1) | |
| | Sweden | 150 | 350 | 250 (1) | 600 (1) | |
| Pentaerythritol | UK | | 10 | | 20 | |
| (inhalable aerosol) | Sweden | | 5 | | | |
| Pentaerythritol (respirable aerosol) | | | 4 | | | |

(1) 15 minutes average value

Data obtained from GESTIS International Limit Values, EH40, supplier's SDS

Note: Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used.

Derived No Effect Level (DNEL) - Acetone

| End User | Exposure Route | Exposure Time | Effects | DNEL |
|----------|----------------|----------------------|----------|------------------|
| Worker | Inhalation | Long term | Systemic | 1210 mg/m3 |
| Worker | Inhalation | Short term | Local | 2420 mg/m3 |
| Worker | Dermal (skin) | Long term | Systemic | 186 mg/kg bw/day |

Derived No Effect Level (DNEL) - Propan-2-ol

| End User | Exposure Route | Exposure Time | Effects | DNEL |
|----------|----------------|---------------|----------|---------------|
| Worker | Inhalation | Long term | Systemic | 500 mg/m3 |
| Worker | Dermal | Long term | Systemic | 888 mg/kg/day |

Derived No Effect Level (DNEL) - Pentaerythritol

| End User | Exposure Route | Exposure Time | Effects | DNEL |
|----------|----------------|----------------------|----------|----------------------|
| Worker | Inhalation | Long term | Systemic | 3.5 mg/m3 |
| Worker | Inhalation | Short term | Systemic | No hazard identified |
| Worker | Dermal | Long term | Systemic | 1 mg/kg bw/day |

Note: The Derived No Effect Level (DNEL) is an estimated safe level of exposure that is derived from toxicity data in accordance with specific guidance within the European REACH regulation. The DNEL may differ from an Occupational Exposure Limit (OEL) for the same chemical. OELs may be recommended by an individual company, a government regulatory body or an expert organization, such as the Scientific Committee for Occupational Exposure Limits (SCOEL) or the American Conference of Governmental Industrial Hygenists (ACGIH). OELs are considered to be safe exposure levels for a typical worker in an occupational setting for an 8-hour work shift, 40 hour work week, as a time weighted average (TWA) or a 15 minute short-term exposure limit (STEL). While also considered to be protective of health, OELs are derived by a process different from that of REACH.

Predicted No Effect Concentration (PNEC)

| | Acetone | Propan-2-ol | Pentaerythritol |
|------------------------------|----------------|-------------|-----------------|
| Water - Fresh Water | 10.6 mg/l | 140.9 mg/l | 1 mg/l |
| Water - Marine Water | 1.06 mg/l | 140.9 mg/l | 0.1 mg/l |
| Water - Intermittent release | 21 mg/l | 140.9 mg/l | 1 mg/1 |
| Sediment - Fresh water | 30.4 mg/ kg dw | 552 mg/kg | No data |
| Sediment - Marine water | 3.04 mg/kg dw | 552 mg/kg | No data |
| Soil | 33.3 mg/kg dw | 28 mg/kg | No data |
| Sewage Treatment plant | 100 mg/l | 2251 mg/kg | 50 mg/l |

8.2 Exposure controls:

Concentrations of product vapours and mists in the working atmosphere must be kept as low as is reasonably practicable. Exposure should be minimised by the use of appropriate containment, engineering control and ventilation measures. Where this is not possible, personal protective equipment should be worn as indicated below where appropriate.

Appropriate engineering controls: Provide adequate ventilation, including

appropriate local extraction, to ensure that the defined occupational exposure limits are not

exceeded.

Provide eye wash station.

Personal protection equipment:

Eye and face protection: Safety glasses with side-shields conforming to

EN166.

Skin protection - hand: Protective gloves conforming to EN374-3. Use

chemical resistant gloves recommended by the glove manufacturer as being suitable for **acetone** if hand exposure is unavoidable.

Protective gloves made of butyl rubber are

suitable, although other types may be more suitable in other circumstances. For prolonged exposure, recommended gloves with protective

index 6, > 480 minutes permeation time

according to EN374.

As the product is a preparation, consult the glove manufacturer for exact breakthrough time. Glove manufacturer's directions for use should

be observed.

Skin protection – other:Wear impervious, flame retardant antistatic

protective clothing. The type of protective equipment must be selected according to the concentration and amount of dangerous substance at the specific workplace.

Respiratory protection: If ventilation is insufficient suitable respiratory

protection must be provided. Use a respirator with appropriate canister type filter cartridge if spraying in confined or unventilated areas. Use respiratory equipment with gas filter type A2P3

(EN141).

For higher level protection use type ABEK-P3

(EU EN 143) respirator cartridges.

Use respirators and components tested and

approved under CEN standards.

Thermal hazards: Not applicable.

Environmental exposure controls: Avoid any release to the environment.

SECTION 9 PHYSICAL & CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Appearance: Aerosol containing mobile white liquid.

Odour:Solvent – alcoholic.Odour threshold:No data available.

pH: Neutral.

Melting point/freezing point: No data available.

Initial boiling point and boiling range: 57 °C.

Flash point (PMCC): -40 °C (aerosol propellant).

Evaporation rate (BuAC = 100): 770.

Flammability (solid, gas) (Limits in air): No data available. Upper/lower flammability or explosive 2-13% (Vol %)

limits:

Vapour pressure: 18.5 mm Hg @ 20 °C.

Vapour density (Air = 1):> 1.Relative density:0.83 g/cm³.Solubility:100%.

Partition coefficient: n-octanol/water: No data available.

Auto-ignition temperature: > 400 °C.

Decomposition temperature:No data available.Viscosity (ASTM D445):< 20 mm²/s @ 20 °C.</th>Explosive properties:No data available.Oxidising properties:No data available.

Note: properties relate to the bulk product only unless otherwise stated.

9.2 Other information:

No other information.

| SECTION 10 | STABILITY & REACTIVITY |
|------------|------------------------|
| | |

10.1 Reactivity: No data available.

10.2 Chemical stability Stable under normal conditions of use and

applications.

10.3 Possibility of hazardous reactions: No data available.

10.4 Conditions to avoid: Keep away from sources of ignition, hot

surfaces, direct sunlight and static

discharge.

10.5 Incompatible materials: Strong oxidising agents. Acids and alkalis.

10.6 Hazardous decomposition materials: None under normal conditions of use.

Smoke, soot and oxides of carbon on

combustion.

SECTION 11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects: based on data for component materials.

Acute toxicity - oral: Based on the available data, the classification criteria

are not met.

Acute toxicity – dermal: Based on the available data, the classification criteria

are not met.

Acute toxicity – inhalation: Based on the available data, the classification criteria

are not met.

Skin corrosion/irritation: EUH066: Repeated exposure may cause skin dryness

or cracking.

Serious eye damage/irritation: Eye Irrit. 2 H319: Causes serious eye irritation.

Respiratory sensitisation: Based on the available data, the classification criteria

are not met.

Skin sensitisation: Based on the available data, the classification criteria

are not met.

Germ cell mutagenicity: Based on the available data, the classification criteria

are not met.

Carcinogencity: Based on the available data, the classification criteria

are not met.

Reproductive toxicity: Based on the available data, the classification criteria

are not met.

STOT single exposure: STOT SE3 H336: May cause drowsiness or dizziness.

Affected organs: narcotic effects. Route of exposure:

inhalation.

STOT repeated exposure: Based on the available data, the classification criteria

are not met.

Aspiration hazard: Based on the available data, the classification criteria

are not met.

Information on likely Routes of Exposure and Potential Health Effects:

Inhalation: Vapours may have a narcotic effect and may cause

headache, fatigue, dizziness and nausea.

Ingestion: Not a likely route of exposure. However, ingestion may

cause irritation of the mouth, throat and digestive tract. Adsorption of large amounts may cause systemic

effects.

Eye contact: This mixture is classified as an eye irritant.

Skin contact: EUH066: Ca

EUH066: Can cause defatting and dryness of skin, leading to cracking and eczema. Prolonged or repeated expsore may lead to dermatitis.

Toxicity Test Results: based on data for component materials, where available.

Acetone

| Acute Toxicity – oral | LD50 (rat) | 5800 mg/kg |
|-----------------------------|---------------|------------------------------|
| Acute Toxicity – dermal | LD50 (rabbit) | > 7400 mg/kg |
| Acute Toxicity – inhalation | LC50 (rat) | 76000 mg/l (vapours) 4 hours |

Propan-2-ol

| Acute Toxicity – oral | LD50 (rat) | 4700 – 5800 mg/kg |
|-----------------------------|---------------|-------------------|
| Acute Toxicity – dermal | LD50 (rabbit) | 13000 mg/kg |
| Acute Toxicity – inhalation | LC50 (rat) | 19000 ppm/8hr |

Pentaerythritol

| Acute Toxicity – oral | LD50 (rat) | 25 500 mg/kg |
|-----------------------------|------------|----------------|
| Acute Toxicity – inhalation | LD50 (rat) | NOEL > 11 mg/l |

Other Information: No other information.

SECTION 12 ECOLOGICAL INFORMATION

Based on data for component materials

12.1 Toxicity:

Acetone

| Fish | Onchorhynchus mykiss | LC50 | 96 hours | 5540 mg/l |
|-----------------------|----------------------|------|----------|-----------|
| Aquatic Invertebrates | Daphnia pulex | EC50 | 48 hours | 8800 mg/l |
| Aquatic Invertebrates | Daphnia magna | EC10 | 28 days | 2212 mg/l |
| Microorganisms | Activated sludge | EC10 | 30 mins. | 1000 mg/l |

Propan-2-ol

| Fish | LC50 | 96h | 9640 – 10400 mg/l |
|---------|------|-----|-------------------|
| Daphnia | EC50 | 48h | 7550 – 13299 mg/l |
| Algae | IC50 | 72h | > 1000 mg/l |

Pentaerythritol

| Fish | LC0 | 48h | > 5000 mg/l |
|----------|------|--------|-------------|
| Daphnia | EC50 | 24h | 38 900 mg/l |
| Algae | EC3 | 7 days | 16 500 mg/l |
| Bacteria | EC10 | 18h | 18200 mg/l |

12.2 Persistence and degradability: Readily biodegradable.

12.3 Bioaccumulative potential: This preparation does not contain any

substances expected to be bioaccumulative.

Partition coefficient: n-octanol/water -0.24 @ 20 °C (acetone) +0.05 (propan-2-ol)

-1.7 (pentaerythritol)

Bioconcentration factor (BCF): 3 (acetone)

12.4 Mobility in soil: Acetone and Propan-2-ol: will evaporate into

the atmosphere from the surfaces of water

and soil.

Pentaerythritol: Not expected to adsorb to the

solid phase.

12.5 Results of PBT and vPvB assessment: This mixture does not contain any

substances that are assessed to be a PBT or

vPvB.

No data available. 12.6 Other adverse effects:

SECTION 13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Dispose of waste and residues in accordance with local authority requirements. Seek the advice of an approved waste disposal contractor for disposal at a licensed facility in accordance with national legislation.

Product/packing disposal: Empty containers may contain residual

product and flammable vapours. Do not pierce or burn container even after use. Do NOT remove labels. Keep away from

sources of ignition.

Waste codes/waste designations 16 05 04* gases in pressure containers

according to LoW: containing dangerous substances.

NOTE: Waste codes are assigned based upon the most common uses for this material and may not reflect contaminants resulting from actual use. Waste producers need to assess the actual process

used when generating the waste and its contaminants in order to assign the proper waste code(s). Waste treatment - relevant information: Dispose of waste and residues in

accordance with local authority requirements. Seek the advice of an approved waste disposal contractor for

disposal at a licensed facility in accordance with national legislation Do not empty down the drain.

Sewage disposal - relevant

information:

Other disposal recommendations: Use a licensed waste contractor.

SECTION 14 TRANSPORT INFORMATION

| 14.1 | UN number: | | ADR/RID: IMDG: | UN1950 UN1950 |
|------|--|-----|-------------------------------------|--|
| 14.2 | UN proper shipping name: | | IATA: ADR/RID: IMDG: | UN1950 AEROSOLS, flammable AEROSOLS, flammable |
| 14.3 | Transport hazard class(es): | | IATA: ADR/RID: IMDG: | AEROSOLS, flammable 2.1 2.1 |
| 14.4 | Packing group: | | IATA: ADR/RID: IMDG: | 2.1 N/A N/A |
| 14.5 | Environmental hazards: | | IATA: ADR/RID: IMDG: IATA: | N/A No Marine Pollutant: No No |
| 14.6 | Special precautions for user: ADR/RID – Tunnel code: | (D) | IATA. | INO |

203 14.7 Transport in bulk according to Annex II of Marpol 73/78 and the IBC code:

203

F-D. S-U

Not applicable.

IATA/ICAO – CAO:

IMDG – EMS: IATA/ICAO – PAX:

SECTION 15 REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

EU Regulations:

This data sheet complies with the requirements of Regulation (EC) No 1272/2008 on the classification, labelling and packaging of substances and mixtures.

Safety data sheet as required by EU Regulations 1907/2006 and REACH Annex II Amendment (EU) No. 2015/830.

Information according to 2013/10/EU and 2008/47/EC amendment of the aerosol directive 75/324/EEC.

This data sheet is compiled according to Dir 2013/10/EU, 2008/47/EC amendment of aerosol directive 75/324/EEC.

Extra label elements: Pressured container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material.

National regulations (Germany):

Wassergefahrdungklasse (water WGK1 - Low hazard to waters.

hazard class):

Technische Anleitung Luft (TA-Luft): Class 5.2.5 Organic Substances, except

dusts

15.2 Chemical safety assessment:

No chemical safety assessment has been carried out for this mixture by the supplier.

SECTION 16 OTHER INFORMATION

(i) Indication of changes:

Version 17.2 updated in Section 1.3.

Vertical lines on the left hand side indicate an amendment from the previous version.

(ii) Abbreviations and acronyms:

ADR European Agreement concerning the International Carriage of Dangerous Goods

by Road (Accord européen relatif au transport international des marchandises

Dangereuses par Route)

CAS No. Chemical Abstracts Service number
CEN European Committee for Standardisation

CLP Classification, Labelling Packaging Regulation; Regulation (EC) No 1272/2008

ECHA European Chemicals Agency

EC50 Half Maximal Effective Concentration

EC number EINECS and ELINCS number

EINECS European Inventory of Existing Commercial Substances

ELINCS European List of notified Chemical Substances

GHS Globally Harmonized System

IATA International Air Transport Association
IMDG International Maritime Dangerous Goods

LC50 Lethal Concentration to 50% of a test population

LD50 Lethal Dose to 50% of a test population

MPI Magnetic Particle Inspection
NDT Non-Destructive Testing
OEL Occupational Exposure Limit

PBT Persistent, Bioaccumulative and Toxic Substance

PMCC Pensky-Martens closed cup method PPE Personal Protection Equipment

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation

EC (No) 1907/2006

RID Regulations concerning the International Carriage of Dangerous Goods by Rail

(Reglement International concernant le transport des marchandises Dangereuses

par chemin de fer)

SDS Safety Data Sheet

STOT RE Specific Target Organ Toxicity, Repeat Exposure STOT SE Specific Target Organ Toxicity, Single Exposure

TA-Luft Technical Instructions on Air Quality Control (Technische Anleitung zur

Reinhaltung der Luft)

vPvB Very Persistent and Very Bioaccumulative

WEL Workplace Exposure Limit

WGK German Water Hazard Class (Wassergefährdungsklasse)

(iii) Key literature and sources of data:

• Supplier's safety data sheets for components listed in Section 3.

- European Chemicals Agency, http://echa.europa.eu/
- GESTIS International Limit Values Database, http://limitvalue.ifa.dguv.de/Webform_gw.aspx
- Occupational Exposure Limits EH40/2005.
- Commission regulation (EU) 2015/830.
- Control of Substances Hazardous to Health Regulations 2002.
- Hazardous waste regulations 2005.
- Health & Safety at Work Act 1974.
- Regulation (EC) No. 1907/2006 (REACH).
- Regulation (EC) No. 1272/2008 (CLP)

(iv) Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 (CLP):

| Classification according to Regulation (EC) No 1272/2008 | Classification procedure | |
|--|--------------------------|--|
| Aerosol. 1, H222, H229 | Test | |
| Eye Irrit. 2 H319 | Calculation | |
| STOT SE3 H336 | Calculation | |

(v) Hazard statements (number and full text):

H220: Extremely flammable gas.

H222: Extremely flammable aerosol.

H225: Highly flammable liquid and vapour.

H229: Pressurised container: may burst if heated.

H280: Contains gas under pressure; may explode if heated.

H319: Causes serious eye irritation.

H336: May cause drowsiness and dizziness.

Hazard Class Category Code (full text):

Aerosol 1: Aerosol

Eye Irrit. 2: Serious eye damage/eye irritation

Flam. Gas. 1: Flammable gas Flam. Liq. 2: Flammable liquid Press. Gas: Gases under pressure

STOT SE3: Specific target organ toxicity - single exposure

Relevant precautionary statements (number and full text):

P210: Keep away from heat, sparks, open flames and hot surfaces. No smoking.

P211: Do not spray on an open flame or other ignition source.

P251: Do not pierce or burn, even after use.

P261: Avoid breathing vapours.

P271: Use only outdoors or in a well ventilated area.

P410 + P412: Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

P280: Wear protective gloves / protective clothing / eye protection / face protection.

P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses if present and easy to do – continue rinsing.

P337+P313: If eye irritation persists get medical advice/attention.

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water.

P264: Wash thoroughly after handling.

P501: Dispose of contents/containers to hazardous waste or special collection point.

(vi) Training advice:

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene. Chemical hazard risk assessment. Provide adequate information, instruction and training to operators.

DISCLAIMER

The information and recommendations contained herein are based upon data believed to be up-to-date and correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information and recommendations contained herein. We accept no responsibility and disclaim all liability for any harmful effects that may be caused by (incorrect) use, handling, purchase, resale, or exposure to our product. Customers and users of our product must comply with all applicable health and safety laws, regulations, and orders. In particular, they are under an obligation to carry out a risk assessment for the particular work places and to take adequate risk management measures in accordance with the national implementation legislation of EU Directives 89/391/EEC and 98/24/EC amended by Directive 2014/27/EU.

Revision Revision This SDS is valid from the Revision Date. If you require a SDS for the summary Comments product manufactured before the revision date please contact us at

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