

# Safety data sheet

Page: 1/14

BASF Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

Date / Revised: 16.08.2021

Version: 2.0

Date previous version: 06.09.2019

Previous version: 1.2

Product: **203034701 Ardrox 3968, Aerosol**

(ID no. 30707058/SDS\_GEN\_GB/EN)

Date of print 21.09.2022

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

**203034701 Ardrox 3968, Aerosol**

UFI: PNAX-R3FJ-M00P-279Y

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use: corrosion inhibitor

Not recommended use: Uses other than recommended

### 1.3. Details of the supplier of the safety data sheet

Company:

BASF SE  
67056 Ludwigshafen  
GERMANY

Contact address:

BASF plc  
4th and 5th Floors, 2 Stockport Exchange  
Railway Road, Stockport, SK1 3GG  
UNITED KINGDOM

Telephone: +44 161 475 3000

E-mail address: product-safety-uk-and-ireland@basf.com

### 1.4. Emergency telephone number

International emergency number:

Telephone: +49 180 2273-112

## SECTION 2: Hazards Identification

### 2.1. Classification of the substance or mixture

BASF Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

Date / Revised: 16.08.2021

Version: 2.0

Date previous version: 06.09.2019

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Date of print 21.09.2022

For the classification of the mixture the following methods have been applied: extrapolation on the concentration levels of the hazardous substances, on basis of test results and after evaluation of experts. The methodologies used are mentioned at the respective test results.

#### According to Regulation (EC) No 1272/2008 [CLP]

Flam. Aerosol 1

H222 Extremely flammable aerosol.

Flam. Aerosol 1

H229 Pressurized container: May burst if heated.

For the classifications not written out in full in this section the full text can be found in section 16.

## 2.2. Label elements

### Globally Harmonized System, EU (GHS)

Pictogram:



Signal Word:

Danger

Hazard Statement:

H222

Extremely flammable aerosol.

H229

Pressurized container: May burst if heated.

Precautionary Statements (Prevention):

P251

Do not pierce or burn, even after use.

P211

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

P210

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Precautionary Statements (Storage):

P410 + P412

Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Labeling of special preparations (GHS):

EUH066: Repeated exposure may cause skin dryness or cracking.

#### According to Regulation (EC) No 1272/2008 [CLP]

Hazard determining component(s) for labelling: Hydrocarbons, C10 - C13, n-alkanes, isoalkanes, cyclics, < 2, Distillates (petroleum), hydrotreated light naphthenic

## 2.3. Other hazards

### According to Regulation (EC) No 1272/2008 [CLP]

BASF Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

Date / Revised: 16.08.2021

Version: 2.0

Date previous version: 06.09.2019

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(ID no. 30707058/SDS\_GEN\_GB/EN)

Date of print 21.09.2022

Container is under pressure. Protect from sun and temperatures above 50 °C. Do not open with force or incinerate even after use. Do not spray into flames or onto glowing objects.

The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

## SECTION 3: Composition/Information on Ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

#### Chemical nature

organic compounds, organic solvent

#### Hazardous ingredients (GHS)

according to Regulation (EC) No. 1272/2008

#### | 3-butoxypropan-2-ol

Content (W/W): $\geq 2.5\%$ - $< 3\%$	Skin Corr./Irrit. 2
CAS Number: 5131-66-8	Eye Dam./Irrit. 2
EC-Number: 225-878-4	H319, H315
REACH registration number: 01-2119475527-28	
INDEX-Number: 603-052-00-8	

#### | Hydrocarbons, C10 - C13, n-alkanes, isoalkanes, cyclics, $< 2$

Content (W/W): $\geq 50\%$ - $< 75\%$	Asp. Tox. 1
CAS Number: 64742-48-9	H304
EC-Number: 918-481-9	EUH066
REACH registration number: 01-2119457273-39	

#### | Distillates (petroleum), hydrotreated light naphthenic

Content (W/W): $\geq 12.5\%$ - $< 15\%$	Asp. Tox. 1
CAS Number: 64742-53-6	H304
EC-Number: 265-156-6	
REACH registration number: 01-2119480375-34	

For the classifications not written out in full in this section, including the hazard classes and the hazard statements, the full text is listed in section 16.

## SECTION 4: First-Aid Measures

### 4.1. Description of first aid measures

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Remove affected person from danger area. Immediately remove contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

If inhaled:

Remove the affected individual into fresh air and keep the person calm. If symptoms persist, seek medical advice. If breathing is irregular or stopped, administer artificial respiration.

On skin contact:

If symptoms persist, seek medical advice. Remove contaminated clothing. Wash skin with soap and water, rinse abundantly. Do NOT use solvents or thinners.

On contact with eyes:

If symptoms persist, seek medical advice. Contact lenses should be removed. Hold eyelids open and flush with copious amounts of clean, fresh water or a special eyewash solution.

On ingestion:

Do not induce vomiting. Rinse mouth thoroughly with water, seek medical attention. If adverse health effects develop seek medical attention.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms: skin irritation, Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treatment: Symptomatic treatment (decontamination, vital functions).

Antidote: No known specific antidote.

## SECTION 5: Fire-Fighting Measures

### 5.1. Extinguishing media

Suitable extinguishing media:

carbon dioxide, alcohol-resistant foam, dry powder, water spray

Unsuitable extinguishing media for safety reasons:

water jet

### 5.2. Special hazards arising from the substance or mixture

Endangering substances: carbon oxides

Advice: Cool containers exposed to fire with water. Decomposition, pressure build-up and bursting of containers may occur.

### 5.3. Advice for fire-fighters

Special protective equipment:

Appropriate breathing apparatus may be required.

Further information:

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BASF Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

Date / Revised: 16.08.2021

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Product: **203034701 Ardrex 3968, Aerosol**

(ID no. 30707058/SDS\_GEN\_GB/EN)

Date of print 21.09.2022

Cool closed containers in the vicinity of the source of fire. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems.

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## SECTION 6: Accidental Release Measures

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

Avoid breathing vapours. For non-emergency personnel: Use personal protective clothing. Ensure adequate ventilation. Keep away from sources of ignition. For emergency responders: Advice on product handling can be found in sections 7 and 8 of this safety data sheet. Information regarding personal protective measures, see section 8.

### 6.2. Environmental precautions

Do not allow to enter drains or waterways. Do not discharge into the subsoil/soil. If the product enters drains or sewers, the local water company should be contacted immediately; in the case of contamination of streams, rivers or lakes, the Environment Agency.

### 6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in a suitable container for disposal according with the waste regulations (see section 13). Clean preferably with a detergent; avoid the use of solvents. Ensure adequate ventilation.

### 6.4. Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

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## SECTION 7: Handling and Storage

### 7.1. Precautions for safe handling

Provide good ventilation of working area (local exhaust ventilation if necessary). Do not return residues to the storage containers. Handle with care - avoid bumps, friction and impact. Smoking, eating and drinking are forbidden in application area. For personal protection see section 8. Comply with the health and safety at work laws. Avoid inhalation of vapour and spray mist. The workplace should be equipped with an emergency shower and eye-rinsing facility. Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice.

Protection against fire and explosion:

Avoid all sources of ignition: heat, sparks, open flame. Product may charge electrostatically: always use earthing leads when transferring from one container to another and earth containers. It is recommended that operators should wear antistatic clothing and footwear. Solvent vapours are heavier than air and spread along floors. Vapour forms explosive mixtures with air. The relevant fire protection measures should be noted. Use explosion-proof equipment.

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

Keep away from oxidising agents, from strongly alkaline and strongly acid materials.

Suitable materials for containers: Paper/Fibreboard, Carbon steel (Iron), tinned carbon steel (Tinplate)

Further information on storage conditions: Keep container dry. Keep in a cool, well-ventilated place. Avoid direct sunlight. Close containers carefully once opened and store them upright in order to

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Date / Revised: 16.08.2021

Version: 2.0

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(ID no. 30707058/SDS\_GEN\_GB/EN)

Date of print 21.09.2022

prevent any leakage. No smoking. No admission for unauthorised personnel. Always keep in containers of same material as the original one. Observe label precautions.

Storage stability:

Storage temperature: < 50 °C

### 7.3. Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

## SECTION 8: Exposure Controls/Personal Protection

### 8.1. Control parameters

#### Components with occupational exposure limits

106-97-8: butane

TWA value 1,450 mg/m<sup>3</sup> ; 600 ppm (WEL/EH 40 (UK))

STEL value 1,810 mg/m<sup>3</sup> ; 750 ppm (WEL/EH 40 (UK))

Ceiling limit value/factor: 15 min

#### Biological limit values (BLV)

No data available.

#### Components with PNEC

5131-66-8: 3-butoxypropan-2-ol

freshwater: 0.525 mg/l

marine water: 0.0525 mg/l

intermittent release: 5.25 mg/l

sediment (freshwater): 2.36 mg/kg

sediment (marine water): 0.236 mg/kg

soil: 0.16 mg/kg

STP: 10 mg/l

#### Components with DNEL

5131-66-8: 3-butoxypropan-2-ol

worker: Long-term exposure- systemic effects, Inhalation: 147 mg/m<sup>3</sup>

worker: Long-term exposure- systemic effects, dermal: 52 mg/kg

consumer: Long-term exposure- systemic effects, Inhalation: 43 mg/m<sup>3</sup>

consumer: Long-term exposure- systemic effects, oral: 12.5 mg/kg

consumer: Long-term exposure- systemic effects, dermal: 22 mg/kg

64742-53-6: Distillates (petroleum), hydrotreated light naphthenic

worker: Long-term exposure - local effects, Inhalation: 5.4 mg/m<sup>3</sup>

### 8.2. Exposure controls

#### Appropriate engineering controls

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BASF Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

Date / Revised: 16.08.2021

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Previous version: 1.2

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(ID no. 30707058/SDS\_GEN\_GB/EN)

Date of print 21.09.2022

Ensure adequate ventilation. This can be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations at the workplace below the occupational exposure limits, appropriate certified respirators must be worn.

#### Personal protective equipment

##### Respiratory protection:

Respiratory protection required if exposure limit (if available) may be exceeded (Combination filter EN 14387 AX-P)

##### Hand protection:

Chemical resistant protective gloves (EN ISO 374-1)

nitrile rubber (NBR) - 0.4 mm coating thickness

butyl rubber (butyl) - 0.7 mm coating thickness

Performance level 6, corresponding to a breakthrough time of >480 min according to EN ISO 374-1

The protection glove should be tested for its specific suitability (e.g. mechanical strength, product compatibility, anti-static properties).

The gloves should be replaced immediately in case of damage or signs of wear. It is recommended to use preventative skin protection (skin cream).

##### Eye protection:

Tightly fitting safety goggles (splash goggles) (e.g. EN 166)

##### Body protection:

Chemical resistant protective clothing according to DIN EN 13034 (Type 6)

#### General safety and hygiene measures

Do not breathe vapour/spray. Eye wash fountains and safety showers must be easily accessible.

Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. Remove contaminated clothing immediately and dispose of safely. Hands and/or face should be washed before breaks and at the end of the shift. Keep separated from food stuffs and feed stocks.

#### Environmental exposure controls

For information regarding environmental exposure controls, see Section 6.

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## SECTION 9: Physical and Chemical Properties

### 9.1. Information on basic physical and chemical properties

Form:	under pressure aerosol
Colour:	amber
pH value:	substance/mixture is a gas
Melting point:	not determined
onset of boiling:	not determined
Flash point:	64 °C The data given are those of the active ingredient.

BASF Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

Date / Revised: 16.08.2021

Version: 2.0

Date previous version: 06.09.2019

Previous version: 1.2

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(ID no. 30707058/SDS\_GEN\_GB/EN)

Date of print 21.09.2022

	-60 °C	
Flammability:	Information applies to the propellant.	
Lower explosion limit:	Extremely flammable aerosol.	
	not determined	
Ignition temperature:	not determined	
Vapour pressure:	(20 °C)	
	not determined	
	(50 °C)	
	not determined	
Density:	0.810 g/cm <sup>3</sup>	(DIN 51757)
	(20 °C)	
	The data given are those of the active ingredient.	
Solubility in water:	insoluble	
Viscosity, kinematic:	(40 °C)	
	not applicable, not determined	
	(20 °C)	
	not applicable	
Explosion hazard:	not explosive	
Fire promoting properties:	not fire-propagating	

## 9.2. Other information

Self heating ability:	It is not a substance capable of spontaneous heating.
Miscibility with water:	immiscible
Flow time:	not applicable

## SECTION 10: Stability and Reactivity

### 10.1. Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

### 10.2. Chemical stability

The product is stable if stored and handled as prescribed/indicated.

### 10.3. Possibility of hazardous reactions

Risk of bursting. Vapours may form explosive mixture with air.

### 10.4. Conditions to avoid

Avoid all sources of ignition: heat, sparks, open flame. Avoid direct sunlight.

### 10.5. Incompatible materials



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BASF Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

Date / Revised: 16.08.2021

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(ID no. 30707058/SDS\_GEN\_GB/EN)

Date of print 21.09.2022

---

Substances to avoid:

Keep away from highly acidic or alkaline substances as well as oxidants in order to prevent exothermal reactions.

## 10.6. Hazardous decomposition products

Possible decomposition products:

When exposed to high temperatures hazardous decomposition products such as carbon monoxide, carbon dioxide, smoke, oxides of nitrogen may be produced., No hazardous decomposition products if stored and handled as prescribed/indicated.

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## SECTION 11: Toxicological Information

### 11.1. Information on toxicological effects

#### Acute toxicity

Assessment of acute toxicity:

Based on available data, the classification criteria are not met.

#### Irritation

Assessment of irritating effects:

Based on available data, the classification criteria are not met.

#### Respiratory/Skin sensitization

Assessment of sensitization:

Based on available data, the classification criteria are not met.

#### Germ cell mutagenicity

Assessment of mutagenicity:

Based on available data, the classification criteria are not met.

#### Carcinogenicity

Assessment of carcinogenicity:

Based on available data, the classification criteria are not met.

#### Reproductive toxicity

Assessment of reproduction toxicity:

Based on available data, the classification criteria are not met.

#### Developmental toxicity

Assessment of teratogenicity:

Based on available data, the classification criteria are not met.

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

Assessment of STOT single:

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BASF Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

Date / Revised: 16.08.2021

Version: 2.0

Date previous version: 06.09.2019

Previous version: 1.2

Product: **203034701 Ardrox 3968, Aerosol**

(ID no. 30707058/SDS\_GEN\_GB/EN)

Date of print 21.09.2022

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Based on available data, the classification criteria are not met.

#### Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:

Based on available data, the classification criteria are not met.

#### Aspiration hazard

No aspiration hazard expected.

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## SECTION 12: Ecological Information

### 12.1. Toxicity

Assessment of aquatic toxicity:

There are no test results available for this product. Do not allow to enter drains or waterways. The mixture has been assessed following regulation (EC) No 1272/2008 and is not classified as dangerous for the environment.

### 12.2. Persistence and degradability

Assessment biodegradation and elimination (H<sub>2</sub>O):

No data available concerning biodegradation and elimination.

### 12.3. Bioaccumulative potential

Bioaccumulation potential:

No data available.

### 12.4. Mobility in soil

Assessment transport between environmental compartments:

Adsorption in soil: No data available.

### 12.5. Results of PBT and vPvB assessment

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

### 12.6. Other adverse effects

The product does not contain substances that are listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

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## SECTION 13: Disposal Considerations

### 13.1. Waste treatment methods

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BASF Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

Date / Revised: 16.08.2021

Version: 2.0

Date previous version: 06.09.2019

Previous version: 1.2

Product: **203034701 Ardrox 3968, Aerosol**

(ID no. 30707058/SDS\_GEN\_GB/EN)

Date of print 21.09.2022

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Observe national and local legal requirements.

No disposal via sewage or waste water systems.

Waste key:

Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

Contaminated packaging:

Containers which are not properly emptied must be disposed pursuant to Directive 2008/98/EC

Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

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## SECTION 14: Transport Information

### Land transport

ADR

UN number	UN1950
UN proper shipping name:	AEROSOLS
Transport hazard class(es):	2.1
Packing group:	Not applicable
Environmental hazards:	no
Special precautions for user:	Tunnel code: D

RID

UN number	UN1950
UN proper shipping name:	AEROSOLS
Transport hazard class(es):	2.1
Packing group:	Not applicable
Environmental hazards:	no
Special precautions for user:	

### Inland waterway transport

ADN

UN number	UN1950
UN proper shipping name:	AEROSOLS
Transport hazard class(es):	2.1
Packing group:	Not applicable
Environmental hazards:	no
Special precautions for user:	

Transport in inland waterway vessel

Not evaluated

**Sea transport****IMDG**

UN number: UN 1950  
UN proper shipping name: AEROSOLS  
Transport hazard class(es): 2.1  
Packing group: Not applicable  
Environmental hazards: no  
Marine pollutant: NO

Special precautions for user:

**Air transport****IATA/ICAO**

UN number: UN 1950  
UN proper shipping name: AEROSOLS, FLAMMABLE  
Transport hazard class(es): 2.1  
Packing group: Not applicable  
Environmental hazards: No Mark as dangerous for the environment is needed  
Special precautions for user:

**14.1. UN number**

See corresponding entries for "UN number" for the respective regulations in the tables above.

**14.2. UN proper shipping name**

See corresponding entries for "UN proper shipping name" for the respective regulations in the tables above.

**14.3. Transport hazard class(es)**

See corresponding entries for "Transport hazard class(es)" for the respective regulations in the tables above.

**14.4. Packing group**

See corresponding entries for "Packing group" for the respective regulations in the tables above.

**14.5. Environmental hazards**

See corresponding entries for "Environmental hazards" for the respective regulations in the tables above.

**14.6. Special precautions for user**

See corresponding entries for "Special precautions for user" for the respective regulations in the tables above.

**14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code**

BASF Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time.

Date / Revised: 16.08.2021

Version: 2.0

Date previous version: 06.09.2019

Previous version: 1.2

Product: **203034701 Ardrox 3968, Aerosol**

(ID no. 30707058/SDS\_GEN\_GB/EN)

Date of print 21.09.2022

Regulation:	Not evaluated
Shipment approved:	Not evaluated
Pollution name:	Not evaluated
Pollution category:	Not evaluated
Ship Type:	Not evaluated

## SECTION 15: Regulatory Information

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

#### Prohibitions, Restrictions and Authorizations

Annex XVII of Regulation (EC) No 1907/2006: Number on List: 28, 29, 3

Directive 2012/18/EU - Control of Major Accident Hazards involving dangerous substances (EU):  
Listed in above regulation: FLAMMABLE AEROSOLS 'Flammable' aerosols Category 1 or 2,  
containing flammable gases Category 1 or 2 or flammable liquids Category 1

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

### 15.2. Chemical Safety Assessment

Chemical Safety Assessment not required

## SECTION 16: Other Information

Literature and Data Sources: REACH-Regulation (EC) No. 1907/2006. CLP-Regulation (EC) No. 1272/2008.

Full text of the classifications, including the hazard classes and the hazard statements, if mentioned in section 2 or 3:

Flam. Aerosol	Flammable aerosols
Skin Corr./Irrit.	Skin corrosion/irritation
Eye Dam./Irrit.	Serious eye damage/eye irritation
Asp. Tox.	Aspiration hazard
H222	Extremely flammable aerosol.
H229	Pressurized container: May burst if heated.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H304	May be fatal if swallowed and enters airways.
EUH066	Repeated exposure may cause skin dryness or cracking.

#### Abbreviations

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road.  
ADN = The European Agreement concerning the International Carriage of Dangerous Goods by Inland waterways. ATE = Acute Toxicity Estimates. CAO = Cargo Aircraft Only. CAS = Chemical Abstract Service. CLP = Classification, Labelling and Packaging of substances and mixtures. DIN = German national organization for standardization. DNEL = Derived No Effect Level. EC50 = Effective concentration median for 50% of the population. EC = European Community. EN = European Standards.

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Date / Revised: 16.08.2021

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(ID no. 30707058/SDS\_GEN\_GB/EN)

Date of print 21.09.2022

IARC = International Agency for Research on Cancer. IATA = International Air Transport Association. IBC-Code = Intermediate Bulk Container code. IMDG = International Maritime Dangerous Goods Code. ISO = International Organization for Standardization. STEL = Short-Term Exposure Limit. LC50 = Lethal concentration median for 50% of the population. LD50 = Lethal dose median for 50% of the population. TLV = Threshold Limit Value. MARPOL = The International Convention for the Prevention of Pollution from Ships. NEN = Dutch Norm. NOEC = No Observed Effect Concentration. OEL = Occupational Exposure Limit. OECD = Organization for Economic Cooperation and Development. PBT = Persistent, Bioaccumulative and Toxic. PNEC = Predicted No Effect Level. PPM = Parts per million. RID = The European Agreement concerning the International Carriage of Dangerous Goods by Rail. TWA = Time Weight Average. UN-number = UN number at transport. vPvB = very Persistent and very Bioaccumulative.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

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Vertical lines in the left hand margin indicate an amendment from the previous version.