

SAFETY DATA SHEET

According to REACH Regulation (EC) No
1907/2006, as amended by UK REACH
Regulations SI 2019/758



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LD9, AERO (400 ml) EASTERN

Version	Revision Date:	SDS Number:	Date of last issue: 18.02.2025
3.0	13.04.2025	000000000050595 953	Date of first issue: 25.07.2022

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

1.1 Product identifier

Trade name : LD9, AERO (400 ml) EASTERN

Product code : 000000000050595953

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

Use of the : Developer
Substance/Mixture

Recommended restrictions : Uses other than recommended
on use

1.3 Details of the supplier of the safety data sheet

Company:
Chemetall Ltd.
Napier House, Auckland Park
MK1 1BU Bletchley, Milton Keynes
Great Britain

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+44 1908 649333
sds.global-chemetall@basf.com

Telephone: +44 1908 649333
E-mail address: sds.global-chemetall@basf.com

1.4 Emergency telephone

International emergency number:
Telephone: +49 180 2273-112

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Aerosols, Category 1

H222: Extremely flammable aerosol.

H229: Pressurised container: May burst if heated.

Eye irritation, Category 2

H319: Causes serious eye irritation.

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Specific target organ toxicity - single exposure, Category 3, Central nervous system

H336: May cause drowsiness or dizziness.

2.2 Label elements

Labeling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Hazard pictograms :



Signal Word : Danger

Hazard Statements	:	H222	Extremely flammable aerosol.
		H229	Pressurised container: May burst if heated.
		H319	Causes serious eye irritation.
		H336	May cause drowsiness or dizziness.

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Precautionary Statements	:	Prevention:	
		P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. 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 mist.
		P280	Wear eye protection/ face protection.
		Storage:	
		P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

Hazardous ingredients which must be listed on the label:

propan-2-ol

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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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.

SECTION 3: Composition/information on ingredients**3.2 Mixtures**

Chemical nature : organic compounds
inorganic compounds
organic solvent
fillers

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
propan-2-ol	67-63-0 200-661-7	Flam. Liq. 2; H225 Eye Irrit. 2; H319	>= 25 - < 50

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	603-117-00-0 UK-20- 9702550300-0- 0000 UK-20- 0537843089-5- 0000 UK-20- 9642318150-0- 0000	STOT SE 3; H336 (Central nervous system)	
Substances with a workplace exposure limit :			
butane	106-97-8 203-448-7 UK-20- 9702550300-0- 0000 UK-20- 0537843089-5-	Flam. Gas 1A; H220 Press. Gas Liquefied gas; H280	>= 25 - < 50

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	0000		
talc	14807-96-6 238-877-9 UK-20- 9702550300-0- 0000 UK-20- 0537843089-5- 0000		$\geq 7 - < 10$

For explanation of abbreviations see section 16.

SECTION 4: First aid measures**4.1 Description of first-aid measures**

General advice : 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).

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Immediately remove contaminated clothing.
In all cases of doubt, or when symptoms persist, seek
medical attention.
Move out of dangerous area.
Never give anything by mouth to an unconscious person.

If inhaled : If symptoms persist, call a physician.

If breathed in, move person into fresh air.

If breathing is irregular or stopped, administer artificial
respiration.

In case of skin contact : If symptoms persist, call a physician.

Wash off immediately with soap and plenty of water
while removing all contaminated clothes and shoes.

Do NOT use solvents or thinners.

In case of eye contact : Immediately wash affected eyes for at least 15 minutes
under running water with eyelids held open, consult an

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eye specialist.

Call a physician immediately.

If easy to do, remove contact lens, if worn.

If swallowed : If symptoms persist, call a physician.

Do NOT induce vomiting.

Rinse mouth.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : 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.

Risks : Causes serious eye irritation.

May cause drowsiness or dizziness.

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4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No known specific antidote.
Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Water spray jet
Dry powder
Alcohol-resistant foam
Carbon dioxide (CO₂)

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire : Cool containers exposed to fire with water.

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fighting

Decomposition, pressure build-up and bursting of
containers may occur.

Hazardous combustion
products

: Carbon oxides

5.3 Advice for firefighters

Special protective
equipment for fire-fighters

: Appropriate breathing apparatus may be required.

Further information

: In the event of fire, cool tanks with water spray.

Fire residues and contaminated fire extinguishing water
must be disposed of in accordance with local
regulations.

Collect contaminated fire extinguishing water separately.
This must not be discharged into drains.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Avoid breathing vapours.

Keep away from sources of ignition.

Advice on product handling can be found in sections 7
and 8 of this safety data sheet.

For non-emergency personnel:

For emergency responders:

Use personal protective equipment.

Ensure adequate ventilation, especially in confined
areas.

6.2 Environmental precautions

Environmental precautions : Do not allow uncontrolled discharge of product into the
environment.

Avoid subsoil penetration.

If the product contaminates rivers and lakes or drains

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inform respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Ensure adequate ventilation.

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

6.4 Reference to other sections

For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Provide good ventilation of working area (local exhaust ventilation if necessary).

Do not return residues to the storage containers.

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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.

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.

Advice on 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. The relevant fire protection measures should be noted. Use explosion-proof equipment. Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air.

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Hygiene measures : Remove contaminated clothing immediately and dispose of safely. Wash hands before breaks and at the end of workday. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Further information on storage conditions : Avoid direct sunlight. Close containers carefully once opened and store them upright in order to prevent any leakage. No smoking. No admission for unauthorised personnel. Always keep in containers of same material as the original one. Observe label precautions. Keep in a dry, cool and well-ventilated place.

Advice on common storage : Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Storage period : 60 Months

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Recommended storage : < 50.00 °C
temperature

Packaging material : Suitable material: Paper/Fibreboard, tinned carbon steel
(Tinplate), Low density polyethylene (LDPE)

Suitable material: Carbon steel (Iron), tinned carbon
steel (Tinplate)

7.3 Specific end use(s)

Specific use(s) : Please refer to the technical leaflet for further
information.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis

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propan-2-ol	67-63-0	STEL	500 ppm 1,250 mg/m ³	GB EH40
		TWA	400 ppm 999 mg/m ³	GB EH40
butane	106-97-8	TWA	600 ppm 1,450 mg/m ³	GB EH40
Further information: Capable of causing cancer and/or heritable genetic damage.				
		STEL	750 ppm 1,810 mg/m ³	GB EH40
Further information: Capable of causing cancer and/or heritable genetic damage.				
talc	14807-96-6	TWA (Respirable dust)	1 mg/m ³	GB EH40

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8.2 Exposure controls

Engineering measures

Ensure adequate ventilation.

Personal protective equipment

Eye/face protection : Tightly fitting safety goggles (splash goggles) (e.g. EN 166)

Hand protection

Remarks : The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it. 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). Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Preventive skin protection

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Skin and body protection : Chemical resistant protective clothing according to DIN EN 13034 (Type 6)

Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Filter type : Combined particulates, organic gas and low boiling vapor type (AX-P)

Protective measures : Eye wash fountains and safety showers must be easily accessible.

If these are not sufficient to maintain concentrations at the workplace below the occupational exposure limits, appropriate certified respirators must be worn.

Avoid contact with the skin, eyes and clothing.

Handle in accordance with good industrial hygiene and safety practice.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

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Appearance	:	under pressure
Color	:	light gray
Odor	:	No data available
Odor Threshold	:	not determined
pH	:	substance/mixture is a gas
Melting point/ range	:	Study technically not feasible.
Boiling point/boiling range	:	Study technically not feasible.
Flash point	:	-60 °C Method: ISO 3679 Flash point is only valid for liquid portion in the aerosol can.
Evaporation rate	:	not determined
Flammability (solid, gas)	:	Extremely flammable aerosol.
Lower explosion limit / Lower flammability limit	:	> 35.0 g/m ³
Vapor pressure	:	not determined (20 °C) not determined (50 °C)
Density	:	0.880 g/cm ³ (20 °C)

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Solubility(ies)

Water solubility	:	not determined
Partition coefficient: n-octanol/water	:	not applicable for mixtures
Autoignition temperature	:	> 200 °C

Decomposition temperature	:	No decomposition if stored and handled as prescribed/indicated.
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Viscosity

Viscosity, kinematic	:	not determined (23 °C)
		not determined (40 °C)

Flow time	:	Not applicable
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Explosive properties	:	Not explosive
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Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
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9.2 Other information

Self-heating substances	:	The substance or mixture is not classified as self heating.
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Metal corrosion rate	:	Not corrosive to metals.
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Particle size	:	No data available
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SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : Risk of bursting.
Vapors may form explosive mixture with air.

10.4 Conditions to avoid

Conditions to avoid : Avoid direct sunlight.
Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

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10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

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

Skin corrosion/irritation

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

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitization

Skin sensitization

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

Respiratory sensitization

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

Germ cell mutagenicity

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

Carcinogenicity

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

Reproductive toxicity

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

STOT-single exposure

May cause drowsiness or dizziness.

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STOT-repeated exposure

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

Aspiration toxicity

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

SECTION 12: Ecological information

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

Components:

propan-2-ol:

Partition coefficient: n-
octanol/water : log Pow: 0.05 (25 °C)

Remarks: Information taken from reference works and
the literature.

butane:

Partition coefficient: n-
octanol/water : log Pow: 2.31 (20 °C)
pH: 7

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talc:

Partition coefficient: n- : log Pow: -9.4 (25 °C)
octanol/water
pH: 7
GLP: no

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

Product:

Endocrine disrupting : This substance/mixture does not contain components

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potential

considered to have endocrine disrupting properties for
environment according to UK REACH Article 57(f).

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Do not discharge into drains/surface
waters/groundwater.

Observe national and local legal requirements.

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

Packaging that is not properly emptied must be disposed
of as the unused product.

SECTION 14: Transport information

14.1 UN number

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ADN : UN 1950

ADR : UN 1950

RID : UN 1950

IMDG : UN 1950

IATA : UN 1950

14.2 UN proper shipping name

ADN : AEROSOLS

ADR : AEROSOLS

RID : AEROSOLS

IMDG : AEROSOLS

IATA : AEROSOLS

14.3 Transport hazard class(es)

Class

Subsidiary risks

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ADN : 2 2.1

ADR : 2 2.1

RID : 2 2.1

IMDG : 2.1

IATA : 2.1

14.4 Packing group**ADN**

Packing group : Not assigned by regulation

Classification Code : 5F

Labels : 2.1

ADR

Packing group : Not assigned by regulation

Classification Code : 5F

Labels : 2.1

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Tunnel restriction code : (D)

RID

Packing group : Not assigned by regulation

Classification Code : 5F

Hazard Identification : 23
Number

Labels : 2.1

IMDG

Packing group : Not assigned by regulation

Labels : 2.1

EmS Code : F-D, S-U

IATA (Cargo)

Packing instruction (cargo : 203
aircraft)

Packing instruction (LQ) : Y203

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Packing group : Not assigned by regulation

Labels : Flammable Gas

IATA (Passenger)

Packing instruction : 203
(passenger aircraft)

Packing instruction (LQ) : Y203

Packing group : Not assigned by regulation

Labels : Flammable gas

14.5 Environmental hazards

ADN

Environmentally : no
hazardous

ADR

Environmentally : no
hazardous

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RID

Environmentally : no
hazardous

IMDG

Marine pollutant : no

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17) : Not applicable

UK REACH Candidate list of substances of very high : Not applicable

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concern (SVHC) for Authorisation

The Persistent Organic Pollutants Regulations
(retained Regulation (EU) 2019/1021 as amended
for Great Britain) : Not applicable

Regulation (EC) on substances that deplete the
ozone layer : Not applicable

UK REACH List of substances subject to
authorisation (Annex XIV) : Not applicable

Control of Major Accident Hazards
Regulations 2015 (COMAH) P3a FLAMMABLE AEROSOLS

18 Liquefied flammable gases
(including LPG) and natural gas

Volatile organic
compounds : Directive 2010/75/EU of 24 November 2010 on
industrial emissions (integrated pollution prevention and
control)

Volatile organic compounds (VOC) content: 91 %

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Volatile organic compounds (VOC) content: 800.80 g/l

VOC content excluding water

Other regulations:

Take note of The Management of Health and Safety at Work Regulations 1999
(requirements relating to protection of young people at work contained in Regulation
19) and of Directive 94/33/EC on the protection of young people at work.

15.2 Chemical Safety Assessment

Assessment of safe use has been performed for the mixture and the result is documented in
section 7 and 8 of the SDS

SECTION 16: Other information

Full text of H-Statements

H220	: Extremely flammable gas.
H225	: Highly flammable liquid and vapor.
H280	: Contains gas under pressure; may explode if heated.
H319	: Causes serious eye irritation.
H336	: May cause drowsiness or dizziness.

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Full text of other abbreviations

Eye Irrit.	: Eye irritation
Flam. Gas	: Flammable gases
Flam. Liq.	: Flammable liquids
Press. Gas	: Gases under pressure
STOT SE	: Specific target organ toxicity - single exposure
GB EH40	: UK. EH40 WEL - Workplace Exposure Limits
GB EH40 / TWA	: Long-term exposure limit (8-hour TWA reference period)
GB EH40 / STEL	: Short-term exposure limit (15-minute reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT -

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Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Further information

Other information : For multi-pack systems observe material safety data sheets of all components.
Restricted to professional users.

Classification of the mixture:

Aerosol 1	H222, H229
Eye Irrit. 2	H319
STOT SE 3	H336

Classification procedure:

Based on product data or assessment
Calculation method
Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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