SAFETY DATA SHEET

according to Commission Regulation (EU) 2020/878 as amended

Lakier Topnik LT-4

Creation date	21st February 2023		
Revision date	17th January 2025	Version	9.0

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

1.1. Product identifier — Lakier Topnik LT-4

Substance / mixture — mixture

UFI — T740-R0SP-Y00A-7CTF

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

Mixture's intended use

Varnish for protecting PCBs

Main intended use

PC-PNT-1 — Aerosol paints and coatings

Mixture uses advised against

The product should not be used in ways other than those referred in Section 1.

1.3. Details of the supplier of the safety data sheet

Manufacturer

Name or trade name	AG TermoPasty Grzegorz Gąsowski
Address	Kolejowa 33 E, Sokoły, 18-218 Poland
Identification number (CRN)	200133730
VAT Reg No	PL9661767714
Phone	+48 86 274 13 42
E-mail	msds@termopasty.pl
Web address	www.termopasty.com

Competent person responsible for the safety data sheet

Name	AG TermoPasty Grzegorz Gąsowski
E-mail	msds@termopasty.pl

1.4. Emergency telephone number

European emergency number: 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification of the mixture in accordance with Regulation (EC) No 1272/2008

The mixture is classified as dangerous.

Aerosol 1, H222, H229
Skin Sens. 1, H317
Eye Irrit. 2, H319
Aquatic Chronic 3, H412

Most serious adverse physico-chemical effects

Pressurised container: May burst if heated. Extremely flammable aerosol.

Most serious adverse effects on human health and the environment

Causes serious eye irritation. May cause an allergic skin reaction. Harmful to aquatic life with long lasting effects.

2.2. Label elements

Hazard pictogram

Signal word

Danger

Hazardous substances

rosin

Hazard statements

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H317	May cause an allergic skin reaction.

H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

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.
P280	Wear protective gloves.
P337+P313	If eye irritation persists: Get medical advice/attention.
P410+P412	Protect from sunlight. Do no expose to temperatures exceeding 50 °C/122 °F.

2.3. Other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended. Does not contain any PMT or vPvM components.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 601-004-00-0 CAS: 106-97-8 EC: 203-448-7	butane	31.2-41.6	Flam. Gas 1, H220 Press. Gas (compressed gas), H280	
Index: 606-001-00-8 CAS: 67-64-1 EC: 200-662-2 Registration number: 01-2119471330-49-XXXX	acetone	≤19.2	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	2
Index: 603-117-00-0 CAS: 67-63-0 EC: 200-661-7 Registration number: 01-2119457558-25-XXXX	isopropanol	≤19.2	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	
Index: 601-003-00-5 CAS: 74-98-6 EC: 200-827-9	propane	10.4-20.8	Flam. Gas 1, H220 Press. Gas (compressed gas), H280	
Index: 603-064-00-3 CAS: 107-98-2 EC: 203-539-1 Registration number: 01-2119457435-35-XXXX	1-methoxy-2-propanol	<7.2	Flam. Liq. 3, H226 STOT SE 3, H336	2
Index: 650-015-00-7 CAS: 8050-09-7 EC: 232-475-7 Registration number: 01-2119480418-32-XXXX	rosin	<4.8	Skin Sens. 1, H317	
Index: 601-006-00-1 CAS: 109-66-0 EC: 203-692-4 Registration number: 01-2119459286-30-XXXX	pentane	1.728-2.112	Flam. Liq. 1, H224 Asp. Tox. 1, H304 STOT SE 3, H336 Aquatic Chronic 2, H411 EUH066	1, 2

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Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
EC: 931-254-9 Registration number: 01-2119459286-30-XXXX	Hydrocarbons, C6, isoalkanes, <5% n-hexane	1.728-2.112	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Chronic 2, H411	

Notes

1 *Note C: Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.*

2 *A substance for which exposure limits are set.*

Full text of all classifications and hazard statements is given in the section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet.

If inhaled

Terminate the exposure immediately; move the affected person to fresh air. Protect the person against growing cold. Provide medical treatment if irritation, dyspnoea or other symptoms persist.

If on skin

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible.

If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. Rinsing should continue at least for 10 minutes. Provide medical treatment, specialized if possible.

If swallowed

Unlikely.

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

If inhaled

Not expected.

If on skin

May cause an allergic skin reaction.

If in eyes

Causes serious eye irritation.

If swallowed

Irritation, nausea.

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

Symptomatic treatment.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

Unsuitable extinguishing media

Water - full jet.

5.2. Special hazards arising from the substance or mixture

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Closed containers with the product near the fire should be cooled with water. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Provide sufficient ventilation. Pressurised container: May burst if heated. Extremely flammable aerosol. Remove all ignition sources. Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Prevent contact with skin and eyes.

6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water.

6.3. Methods and material for containment and cleaning up

Ventilate the room. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water.

6.4. Reference to other sections

See the Section 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Prevent formation of gases and vapours in flammable or explosive concentrations and concentrations exceeding the occupational exposure limits. The product should be used only in the areas where it is not in contact with open fire and other ignition sources. Use non-sparking tools. Use of antistatic clothes and footwear is recommended. Prevent contact with skin and eyes. No smoking. Protect against direct sunlight. Do not pierce or burn, even after use. Contaminated work clothing should not be allowed out of the workplace. Wash hands and exposed parts of the body thoroughly after handling. Do not spray on an open flame or other ignition source. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection. Avoid release to the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

Content	Packaging type	Material of package
100 ml	airspray	FE

7.3. Specific end use(s)

not available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

The mixture contains substances for which occupational exposure limits are set.

European Union **Commission Directive 2000/39/EC**

Substance name (component)	Type	Value
acetone (CAS: 67−64−1)	OEL 8 hours	1210 mg/m³
	OEL 8 hours	500 ppm

European Union **Commission Directive 2000/39/EC**

Substance name (component)	Type	Value
1−methoxy−2−propanol (CAS: 107−98−2)	OEL 8 hours	375 mg/m³
	OEL 8 hours	100 ppm
	OEL 15 minutes	568 mg/m³
	OEL 15 minutes	150 ppm

Notes
Skin.

European Union **Commission Directive 2006/15/EC**

Substance name (component)	Type	Value
pentane (CAS: 109−66−0)	OEL 8 hours	3000 mg/m³
	OEL 8 hours	1000 ppm

DNEL

1-methoxy-2-propanol			
Workers / consumers	Route of exposure	Value	Effect
Workers	Oral	3.3 mg/m³/24h	Chronic effects systemic
Consumers	Inhalation	553.5 mg/m³	Acute effects systemic
Consumers	Inhalation	369 mg/m³	Chronic effects systemic
Workers	Inhalation	43.9 mg/m³	Chronic effects systemic
Workers	Dermal	18.1 mg/m³/24h	Chronic effects systemic
Consumers	Dermal	50.6 mg/m³/24h	Chronic effects systemic

acetone			
Workers / consumers	Route of exposure	Value	Effect
Workers	Inhalation	2420 mg/m³	Acute effects local
Workers	Dermal	186 mg/kg bw/day	Chronic effects systemic
Workers	Inhalation	1210 mg/m³	Chronic effects systemic
Consumers	Dermal	62 mg/kg bw/day	Chronic effects systemic
Consumers	Inhalation	200 mg/m³	Chronic effects systemic
Consumers	Oral	62 mg/kg bw/day	Chronic effects systemic

isopropanol			
Workers / consumers	Route of exposure	Value	Effect
Workers	Inhalation	500 mg/m³	Chronic effects systemic
Workers	Dermal	888 mg/kg bw/day	Chronic effects systemic
Consumers	Inhalation	89 mg/m³	Chronic effects systemic
Consumers	Dermal	319 mg/kg bw/day	Chronic effects systemic
Consumers	Oral	26 mg/kg bw/day	Chronic effects systemic

rosin			
Workers / consumers	Route of exposure	Value	Effect
Workers	Dermal	25 mg/kg bw/day	Chronic effects systemic
Workers	Inhalation	176.32 mg/m³	Chronic effects systemic
Consumers	Oral	15 mg/kg bw/day	Chronic effects systemic
Consumers	Dermal	15 mg/kg bw/day	Chronic effects systemic
Consumers	Inhalation	52.174 mg/m³	Chronic effects systemic

PNEC

1-methoxy-2-propanol	
Route of exposure	Value
Drinking water	10 mg/l
Marine water	1 mg/l
Freshwater sediment	52.3 mg/kg
Sea sediments	5.2 mg/kg

1-methoxy-2-propanol	
Route of exposure	Value
Soil (agricultural)	4.59 mg/kg

acetone	
Route of exposure	Value
Drinking water	10.6 mg/l
Marine water	1.06 mg/l
Sea sediments	30.4 mg/kg of dry substance of sediment
Freshwater sediment	30.4 mg/kg of dry substance of sediment
Soil (agricultural)	29.5 mg/kg of dry substance of soil
Microorganisms in sewage treatment	100 mg/l

isopropanol	
Route of exposure	Value
Drinking water	140.9 mg/l
Marine water	140.9 mg/l
Freshwater sediment	552 mg/kg of dry substance
Freshwater environment	552 mg/kg of dry substance
Soil (agricultural)	28 mg/kg of dry substance

rosin	
Route of exposure	Value
Drinking water	0.005 mg/l
Marine water	0.0005 mg/l
Freshwater sediment	108 mg/kg of dry substance
Sea sediments	10.8 mg/kg of dry substance
Soil (agricultural)	21.4 mg/kg of dry substance
Microorganisms in sewage treatment	1000 mg/l

8.2. Exposure controls

Take off contaminated clothing and wash before reuse. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

Eye/face protection

Protective goggles.

Skin protection

Hand protection: Protective gloves resistant to the product. Contaminated skin should be washed thoroughly.

Respiratory protection

Halfmask with a filter against organic vapours or a self-contained breathing apparatus as appropriate if exposure limit values of substances are exceeded or in a poorly ventilated environment.

Thermal hazard

Not available.

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	gas
Colour	orange, yellow
Odour	characteristic
Melting point/freezing point	data not available

Boiling point or initial boiling point and boiling range	data not available
Flammability	Extremely flammable aerosol.
Lower and upper explosion limit	data not available
Flash point	data not available
Auto-ignition temperature	data not available
Decomposition temperature	data not available
pH	gas
Kinematic viscosity	data not available
Solubility in water	data not available
Solubility in fats	data not available
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	data not available
Density and/or relative density	data not available
Relative vapour density	data not available
Particle characteristics	data not available

9.2. Other information

Evaporation rate	non-applicable
Appearance	liquid

SECTION 10: Stability and reactivity

10.1. Reactivity

not available

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

Unknown.

10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost. Pressurised container: May burst if heated.

10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Inhalation of solvent vapors above values exceeding exposure limits for working environment may result in acute inhalation poisoning, depending on the level of concentration and exposure time. No toxicological data is available for the mixture.

Acute toxicity

Based on available data the classification criteria are not met.

1-methoxy-2-propanol					
Route of exposure	Parameter	Value	Exposure time	Species	Sex
Inhalation	LC_{50}	27596 mg/m³	3 hours	Rat	
Dermal	LD_{50}	>2000 mg/kg		Rabbit	
Oral	LD_{50}	4016 mg/kg		Rat	

acetone					
Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD_{50}	5800 mg/kg		Rat (Rattus norvegicus)	

acetone					
Route of exposure	Parameter	Value	Exposure time	Species	Sex
Inhalation (vapor)	LC_{50}	76000 mg/m³	4 hours	Rat (Rattus norvegicus)	
Dermal	LD_{50}	7400 mg/kg		Rabbit	
Dermal	LD_{50}	7400 mg/kg		Guinea-pig (Cavia aperea f. porcellus)	

isopropanol					
Route of exposure	Parameter	Value	Exposure time	Species	Sex
Inhalation	LC_{50}	>5 mg/l	4 hours	Rat	
Oral	LD_{50}	>2000 mg/kg		Rat	
Skin	LD_{50}	>2000 mg/kg		Rabbit	

pentane					
Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD_{50}	>2000 mg/kg		Rat	
Inhalation	LD_{50}	364 mg/m³	4 hours	Rat	

rosin					
Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD_{50}	2800 mg/kg		Rat	
Oral	LD_{50}	>1000		Guinea-pig	
Dermal	LD_{50}	>2000 mg/kg		Rat	

Skin corrosion/irritation
Based on available data the classification criteria are not met.

Serious eye damage/irritation
Causes serious eye irritation.

acetone				
Route of exposure	Result	Method	Exposure time	Species
Eye		OECD 405		

Respiratory or skin sensitisation
May cause an allergic skin reaction.

Germ cell mutagenicity
not available

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

Reproductive toxicity
Based on available data the classification criteria are not met.

Toxicity for specific target organ - single exposure
Based on available data the classification criteria are not met.

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Toxicity for specific target organ - repeated exposure
Based on available data the classification criteria are not met.

Aspiration hazard
Based on available data the classification criteria are not met.

pentane				
Route of exposure	Result	Exposure time	Species	Sex
	Negative			

11.2. Information on other hazards

Endocrine disrupting properties
Based on the available data, the criteria for classification of the mixture are not met. Does not contain any components that may cause endocrine disruption for humans.

Other information
not available

SECTION 12: Ecological information

12.1. Toxicity

Harmful to aquatic life with long lasting effects.

Acute toxicity

1-methoxy-2-propanol						
Parameter	Method	Value	Exposure time	Species	Environment	Source
LC_{50}		6812 mg/l	96 hours	Fish (Leuciscus idus)		
EC_{50}		23300 mg/l	48 hours	Daphnia (Daphnia magna)		
EC_{50}		>1000 mg/l	7 days	Other aquatic organisms (Pseudokirchneriella subcapitata)		
EC_{50}		>1000 mg/l	3 hours	Bacteria	Activated sludge	

acetone						
Parameter	Method	Value	Exposure time	Species	Environment	Source
LC_{50}		8800 mg/l	48 hours	Invertebrates	Fresh water	
LC_{50}		2100 mg/l	24 hours	Invertebrates	Salt water	
LOEC		530 mg/l	8 days	Algae and other aquatic plants	Fresh water	
NOEC		430 mg/l	96 hours	Algae and other aquatic plants	Salt water	
LC_{50}		5540 mg/l	96 hours	Fish (Oncorhynchus mykiss)	Fresh water	
LC_{50}		11000 mg/l	96 hours	Fish	Salt water	

isopropanol						
Parameter	Method	Value	Exposure time	Species	Environment	Source
LC_{50}		>100 mg/l	48 hours	Fish (Leuciscus idus)		

isopropanol						
Parameter	Method	Value	Exposure time	Species	Environment	Source
EC_{50}		>100 mg/l	48 hours	Daphnia (Daphnia magna)		
EC_{50}		>100 mg/l	72 hours	Algae (Scenedesmus subspicatus)		

rosin						
Parameter	Method	Value	Exposure time	Species	Environment	Source
LL_{100}	OECD 203	≤10 mg/l	24 hours	Fish (Branchydanio rerio)		anon,
NOELR	OECD 203	≤1 mg/l	96 hours	Fish (Branchydanio rerio)		anon.
LD_{50}	OECD 203	60.3 mg/l	96 hours	Fish (Branchydanio rerio)		Schreerbaum D
NOELR	OECD 203	≥1000 mg/l	96 hours	Fish (Pimephales promelas)		Kelly, C.R., Clayton, M.A.
LL_{50}	OECD 203	>1000 mg/l	96 hours	Fish (Pimephales promelas)		Kelly, C.R., Clayton, M.A.
EL_{50}	OECD 202	911 mg/l	48 hours	Daphnia (Daphnia magna)		Kelly, C.R., Clayton, M.A.
NOELR	OECD 202	75 mg/l	48 hours	Daphnia (Daphnia magna)		Kelly, C.R., Clayton, M.A.
NOELR	OECD 202	10	48 hours	Daphnia (Daphnia magna)		anon.
EL_{100}	OECD 202	≤100 mg/l	48 hours	Daphnia (Daphnia magna)		anon.
NOELR	OECD 201	≥1000 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)		Kelly, C.R., Clayton, M.A.
EL_{50}	OECD 201	.1000 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)		Kelly, C.R., Clayton, M.A.

Chronic toxicity

acetone				
Parameter	Value	Exposure time	Species	Environment
NOEC	2212 mg/l	24 hours	Invertebrates (Daphnia magna)	

12.2. Persistence and degradability

not available

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Biodegradability

rosin				
Parameter	Value	Exposure time	Environment	Result
				Easily biodegradable

12.3. Bioaccumulative potential

Not available.

rosin					
Parameter	Value	Exposure time	Species	Environment	Temperature [°C]
BCF	56.23 ml/kg				

12.4. Mobility in soil

Not available.

12.5. Results of PBT and vPvB assessment

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any PBT or vPvB components.

12.6. Endocrine disrupting properties

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any components that may cause endocrine disruption in the environment.

12.7. Other adverse effects

Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

Packaging waste type code

15 01 11* metallic packaging containing a hazardous solid porous matrix (for example asbestos), including empty pressure containers

(*) - Hazardous waste according to Directive 2008/98/EC on hazardous waste

SECTION 14: Transport information

14.1. UN number or ID number

UN 1950

14.2. UN proper shipping name

AEROSOLS

14.3. Transport hazard class(es)

2 Gases

14.4. Packing group

not relevant

14.5. Environmental hazards

not relevant

14.6. Special precautions for user

Reference in the Sections 4 to 8.

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14.7. Maritime transport in bulk according to IMO instruments

not relevant

Additional information

Hazard identification No.	
UN number	1950
Classification code	5F
Safety signs	2.1

Tunnel restriction code	(D)

Air transport - ICAO/IATA

Packaging instructions passenger	203
Cargo packaging instructions	203

Marine transport - IMDG

EmS (emergency plan)	F-D, S-U
MFAG	620

SECTION 15: Regulatory information

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

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Product contains reportable explosives precursors: Reporting of suspicious transactions, disappearances and thefts according to Regulation (EU) 2019/1148, Article 9. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out (mixture).

SECTION 16: Other information

A list of standard risk phrases used in the safety data sheet

EUH066	Repeated exposure may cause skin dryness or cracking.
H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H224	Extremely flammable liquid and vapour.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

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Guidelines for safe handling used in the safety data sheet

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.
P280	Wear protective gloves.
P337+P313	If eye irritation persists: Get medical advice/attention.
P410+P412	Protect from sunlight. Do no expose to temperatures exceeding 50 °C/122 °F.

Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

Key to abbreviations and acronyms used in the safety data sheet

ADR	European agreement concerning the international carriage of dangerous goods by road
Aerosol	Aerosol
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
Asp. Tox.	Aspiration hazard
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
EC	Identification code for each substance listed in EINECS
EC_{50}	Concentration of a substance when it is affected 50 % of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EL_{100}	Effective Loading for 100 % of the tested organisms
EL_{50}	Effective Loading for 50 % of the tested organisms
EmS	Emergency plan
EU	European Union
EuPCS	European Product Categorisation System
Eye Irrit.	Eye irritation
Flam. Gas	Flammable gas
Flam. Liq.	Flammable liquid
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC_{50}	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD_{50}	Lethal dose of a substance in which it can be expected death of 50% of the population
LL_{100}	Lethal Loading for 100 % of tested organisms
LL_{50}	Lethal Loading for 50 % of tested organisms
log Kow	Octanol-water partition coefficient
NOEC	No observed effect concentration
NOEL	No observed effect level
NOELR	No Observed Effect Loading Rate
OEL	Occupational Exposure Limits
PBT	Persistent, bioaccumulative and toxic
PMT	Persistent, mobile and toxic
ppm	Parts per million
Press. Gas	Gases under pressure

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REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitization
STOT SE	Specific target organ toxicity - single exposure
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very persistent and very bioaccumulative
vPvM	Very persistent and very mobile

Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

Recommended restrictions of use

not available

Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

The changes (which information has been added, deleted or modified)

The version 9.0 replaces the SDS version from Wednesday, 7 February 2024. Changes were made in sections 2, 11, 12, 13 and 16.

More information

Classification procedure - calculation method.

Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.

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