

# SAFETY DATA SHEET



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

## Topnik LP-1

Creation date 14th September 2022  
Revision date 03rd March 2023 Version 10.0

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

- 1.1. Product identifier**  
Substance / mixture Topnik LP-1  
mixture  
UFI 8020-KOUD-000F-1GNS
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**  
**Mixture's intended use**  
Flux agent.  
**Main intended use**  
PC-TEC-24 Welding, soldering, and flux products  
**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 862741342  
E-mail biuro@termopasty.pl  
Web address www.termopasty.pl
- Competent person responsible for the safety data sheet**  
Name AG TermoPasty Grzegorz Gąsowski  
E-mail biuro@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.

Flam. Liq. 2, H225  
Eye Irrit. 2, H319  
STOT SE 3, H336

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

#### Most serious adverse physico-chemical effects

Highly flammable liquid and vapour.

#### Most serious adverse effects on human health and the environment

Causes serious eye irritation. May cause drowsiness or dizziness. May cause an allergic skin reaction.

- 2.2. Label elements**

#### Hazard pictogram



#### Signal word

Danger

#### Hazardous substances

propan-2-ol

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### Hazard statements

H225 Highly flammable liquid and vapour.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.

### Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233 Keep container tightly closed.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P370+P378 In case of fire: Use powder extinguisher/sand/carbon dioxide to extinguish.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.

### Supplemental information

EUH208 Contains COLOPHONIUM. May produce an allergic reaction.

### 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.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Chemical characterization

Mixture of substances and additives specified below.

**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: 603-117-00-0 CAS: 67-63-0 EC: 200-661-7 Registration number: 01-2119457558-25-XXXX	propan-2-ol	85-95	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	1
Index: 603-096-00-8 CAS: 112-34-5 EC: 203-961-6 Registration number: 01-2119475104-44-XXXX	2-(2-butoxyethoxy)ethanol	<3	Acute Tox. 4, H302+H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319	1, 2
Index: 607-144-00-9 CAS: 124-04-9 EC: 204-673-3 Registration number: 01-2119457561-38-XXXX	adipic acid	<2	Eye Dam. 1, H318	
Index: 650-015-00-7 CAS: 8050-09-7 EC: 232-475-7 Registration number: 01-2119480418-32-XXXX	COLOPHONIUM	<1	Skin Sens. 1, H317	1

### Notes

- 1 A substance for which exposure limits are set.
- 2 The use of the substance is restricted by Annex XVII of REACH Regulation

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

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### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

##### 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. Soap, soap solution or shampoo should be used if there is no skin injury. Provide medical treatment if skin irritation persists. Rinse skin with water/shower.

##### 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

DO NOT INDUCE VOMITING! Rinse out the mouth with water and provide 2-5 dL of water. Provide medical treatment if the person has any health problems.

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

##### If inhaled

May cause drowsiness or dizziness.

##### 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

Use a self-contained breathing apparatus and full-body protective clothing. Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. 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. Highly flammable liquid and vapour. Remove all ignition sources. Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Do not inhale aerosols. Prevent contact with skin and eyes.

#### 6.2. Environmental precautions

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

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

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. 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. Do not use solvents.

### 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. Do not inhale aerosols. Prevent contact with skin and eyes. No smoking. Contaminated work clothing should not be allowed out of the workplace. Use only non-sparking tools. Wash hands and exposed parts of the body thoroughly after handling. Use only outdoors or in a well-ventilated area. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection. Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Take precautionary measures against static discharge.

### 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. Do not expose to sunlight. Store locked up. Keep container tightly closed. Keep cool.

Content	Packaging type	Material of package
100 ml	bottle	HDPE
500 ml	bottle	HDPE
1000 ml	jerry can	FE

### The specific requirements or rules relating to the substance/mixture

Solvent vapours are heavier than air and accumulate especially near the floor where they may form an explosive mixture with the air.

### 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 2006/15/EC

Substance name (component)	Type	Value	Note
2-(2-butoxyethoxy)ethanol (CAS: 112-34-5)	OEL 8 hours	67,5 mg/m <sup>3</sup>	
	OEL 8 hours	10 ppm	
	OEL 15 minutes	101,2 mg/m <sup>3</sup>	
	OEL 15 minutes	15 ppm	

#### United Kingdom

#### EH40/2005 Workplace exposure limits (Fourth Edition 2020)

Substance name (component)	Type	Value	Note
propan-2-ol (CAS: 67-63-0)	WEL 8h	999 mg/m <sup>3</sup>	
	WEL 8h	400 ppm	
	WEL 15min	1250 mg/m <sup>3</sup>	
	WEL 15min	500 ppm	
2-(2-butoxyethoxy)ethanol (CAS: 112-34-5)	WEL 8h	67,5 mg/m <sup>3</sup>	
	WEL 8h	10 ppm	
	WEL 15min	101,2 mg/m <sup>3</sup>	

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### United Kingdom EH40/2005 Workplace exposure limits (Fourth Edition 2020)

Substance name (component)	Type	Value	Note
2-(2-butoxyethoxy)ethanol (CAS: 112-34-5)	WEL 15min	15 ppm	
COLOPHONIUM (CAS: 8050-09-7)	WEL 8h	0,05 mg/m <sup>3</sup>	Capable of causing occupational asthma.
	WEL 15min	0,15 mg/m <sup>3</sup>	

### DNEL

2-(2-butoxyethoxy)ethanol

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	246 mg/m <sup>3</sup>	Acute effects local		
Workers	Inhalation	1091 mg/m <sup>3</sup>	Chronic effects local		
Workers	Dermal	125 mg/kg bw/day	Chronic effects systemic		
Workers	Inhalation	98 mg/m <sup>3</sup>	Chronic effects systemic		
Workers	Dermal	89 mg/kg bw/day	Acute effects systemic		

adipic acid

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	5 mg/m <sup>3</sup>	Acute effects local		

COLOPHONIUM

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Dermal	25 mg/kg bw/day	Chronic effects systemic		
Workers	Inhalation	176.32 mg/m <sup>3</sup>	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/m <sup>3</sup>	Chronic effects systemic		

propan-2-ol

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Dermal	888 mg/kg	Chronic effects systemic		
Workers	Inhalation	500 mg/m <sup>3</sup>	Chronic effects systemic		
Consumers	Dermal	319 mg/kg	Chronic effects systemic		
Consumers	Inhalation	89 mg/m <sup>3</sup>	Chronic effects systemic		
Consumers	Oral	26 mg/kg	Chronic effects systemic		

### PNEC

2-(2-butoxyethoxy)ethanol

Route of exposure	Value	Value determination	Source
Marine water	0.88 mg/l		
Microorganisms in sewage treatment	463 mg/l		
Freshwater sediment	34.6 mg/kg of food		
Sea sediments	3.46 mg/kg of food		

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### 2-(2-butoxyethoxy)ethanol

Route of exposure	Value	Value determination	Source
Drinking water	6.8 mg/l		
Soil (agricultural)	2.33 mg/kg		

### adipic acid

Route of exposure	Value	Value determination	Source
Drinking water	0.126 mg/l		
Marine water	0.0126 mg/l		
Water (intermittent release)	0.46 mg/l		
Freshwater sediment	0.484 mg/kg		
Sea sediments	0.0484 mg/kg		
Soil (agricultural)	0.0228 mg/kg		
Microorganisms in sewage treatment	59.1 mg/l		

### COLOPHONIUM

Route of exposure	Value	Value determination	Source
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		

### propan-2-ol

Route of exposure	Value	Value determination	Source
Drinking water	140.9 mg/l		
Marine water	140.9 mg/l		
Freshwater sediment	552 mg/kg		
Sea sediments	552 mg/kg		
Soil (agricultural)	28 mg/kg		

## 8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. If exposure limits cannot be observed in this mode, suitable protection of airways must be used. 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

Data not available.

### Environmental exposure controls

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

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### SECTION 9: Physical and chemical properties

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

Physical state	liquid
Colour	yellow
Odour	containing alcohol
Melting point/freezing point	data not available
Boiling point or initial boiling point and boiling range	data not available
Flammability	Highly flammable liquid and vapour.
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	non-polar/aprotic
Kinematic viscosity	data not available
Solubility in water	partially soluble
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	
Density	0,8 g/cm <sup>3</sup>
Relative vapour density	data not available
Particle characteristics	data not available
Form	liquid

#### 9.2. Other information

Evaporation rate data not available

### 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.

#### 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

No toxicological data is available for the mixture.

##### Acute toxicity

Based on available data the classification criteria are not met.

2-(2-butoxyethoxy)ethanol

Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD <sub>50</sub>	5.660 mg/kg		Rat	
Dermal	LD <sub>50</sub>	435 mg/kg		Rabbit	
Inhalation	LC <sub>50</sub>	450-486 ppm	4 hours	Rat	

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adipic acid

Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD <sub>50</sub>	5560 mg/kg		Rat	
Dermal	LD <sub>50</sub>	>7940 mg/kg		Rabbit	
Inhalation	LC <sub>50</sub>	>77.7 mg/l	4 hours	Rat (Rattus norvegicus)	

COLOPHONIUM

Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD <sub>50</sub>	2800 mg/kg		Rat	
Oral	LD <sub>50</sub>	>1000		Guinea-pig	
Dermal	LD <sub>50</sub>	>2000 mg/kg		Rat	

propan-2-ol

Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD <sub>50</sub>	5840 mg/kg		Rat (Rattus norvegicus)	
Dermal	LD <sub>50</sub>	13400 mg/kg		Rabbit	
Inhalation	LC <sub>50</sub>	25000 mg/m <sup>3</sup>	4 hours	Rat (Rattus norvegicus)	

### Skin corrosion/irritation

Based on available data the classification criteria are not met.

### Serious eye damage/irritation

Causes serious eye irritation.

adipic acid

Route of exposure	Result	Exposure time	Species
	Serious eye damage		

### Respiratory or skin sensitisation

May cause an allergic skin reaction. 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.

### Toxicity for specific target organ - single exposure

May cause drowsiness or dizziness.

### Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

### Aspiration hazard

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

## 11.2. Information on other hazards

not available

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Acute toxicity

2-(2-butoxyethoxy)ethanol

Parameter	Method	Value	Exposure time	Species	Environment	Source
EC <sub>50</sub>		>100 mg/l	48 hours			



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### 2-(2-butoxyethoxy)ethanol

Parameter	Method	Value	Exposure time	Species	Environment	Source
LC <sub>50</sub>		1490-2950 mg/l	96 hours			
EC <sub>50</sub>		1550-1000 mg/l	48 hours			

### adipic acid

Parameter	Method	Value	Exposure time	Species	Environment	Source
LCO		≥1000 mg/l	96 hours	Fish (Branchydanio rerio)		
LC <sub>50</sub>	OECD 202	46 mg/l	48 hours	Daphnia (Daphnia magna)		
EC <sub>50</sub>	OECD 201	59 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)		
EC <sub>50</sub>	OECD 209	7911 mg/l	3 hours	Microorganisms	Activated sludge	
NOEC	OECD 211	6.3 mg/l	21 days	Aquatic invertebrates (Daphnia magna)		

### COLOPHONIUM

Parameter	Method	Value	Exposure time	Species	Environment	Source
LL <sub>100</sub>	OECD 203	≤10 mg/l	24 hours	Fish (Branchydanio rerio)		anon,
NOELR	OECD 203	≤1 mg/l	96 hours	Fish (Branchydanio rerio)		anon.
LD <sub>50</sub>	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 <sub>50</sub>	OECD 203	>1000 mg/l	96 hours	Fish (Pimephales promelas)		Kelly, C.R., Clayton, M.A.
EL <sub>50</sub>	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 <sub>100</sub>	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 <sub>50</sub>	OECD 201	.1000 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)		Kelly, C.R., Clayton, M.A.

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propan-2-ol

Parameter	Method	Value	Exposure time	Species	Environment	Source
LC <sub>50</sub>		9640 mg/l	96 hours	Fish (Pimephales promelas)		
LC <sub>50</sub>		>10000 mg/l	24 hours	Aquatic invertebrates (Daphnia magna)		
LOEC		1000 mg/l	8 days	Algae (Selenastrum capricornutum)		

### 12.2. Persistence and degradability

#### Biodegradability

2-(2-butoxyethoxy)ethanol

Parameter	Method	Value	Exposure time	Environment	Result
	OECD 301D	90 %	28 days		Easily biodegradable

adipic acid

Parameter	Method	Value	Exposure time	Environment	Result
TeorZT	OECD 301D	83 %	30 days		

COLOPHONIUM

Parameter	Method	Value	Exposure time	Environment	Result
					Easily biodegradable

Data not available.

### 12.3. Bioaccumulative potential

2-(2-butoxyethoxy)ethanol

Parameter	Value	Exposure time	Species	Environment	Temperature [°C]
Log Pow	0.81				

COLOPHONIUM

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

Data not available.

### 12.4. Mobility in soil

Data not available.

### 12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

### 12.6. Endocrine disrupting properties

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.

### 12.7. Other adverse effects

Data 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. Proceed in accordance with valid regulations on waste disposal. 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.

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### 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.

### Waste type code

11 05 04 spent flux \*

### Packaging waste type code

15 01 10 packaging containing residues of or contaminated by hazardous substances \*

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

## SECTION 14: Transport information

### 14.1. UN number or ID number

UN 1219

### 14.2. UN proper shipping name

ISOPROPANOL

### 14.3. Transport hazard class(es)

3 Flammable liquids

### 14.4. Packing group

II - substances presenting medium danger

### 14.5. Environmental hazards

not relevant

### 14.6. Special precautions for user

Reference in the Sections 4 to 8.

### 14.7. Maritime transport in bulk according to IMO instruments

not relevant

### Additional information

Hazard identification No.

33

UN number

1219

Classification code

F1

Safety signs

3



### Road transport - ADR

Special provisions

601

Limited quantities

1 L

Excepted quantities

E2

### Packaging

Packing instructions

P001, IBC02, R001

Mixed packing provisions

MP19

### Portable tanks and bulk containers

Guidelines

T4

Special provisions

TP1

### ADR tank

Tank code

LGBF

Vehicles for tank carriage

FL

Transport category

2

Tunnel restriction code

(D/E)

### Special provision for

operation

S2, S20

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### Railway transport - RID

Special provisions 601  
Excepted quantities E2

### Packaging

Packing instructions P001, IBC02, R001  
Mixed packing provisions MP19

### Portable tanks and bulk containers

Guidelines T4  
Special provisions TP1

### RID Tanks

Tank code LGBF  
Transport category 0

### Air transport - ICAO/IATA

Packaging instructions for limited amount Y341  
Packaging instructions passenger 353  
Cargo packaging instructions 364

### Marine transport - IMDG

EmS (emergency plan) F-E, S-D  
MFAG 305

## 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.

#### Restrictions pursuant to Annex XVII of Regulation (EC) No. 1907/2006 (REACH), as amended

2-(2-butoxyethoxy)ethanol

Restriction	Conditions of restriction
55	<p>1. Shall not be placed on the market for the first time after 27 June 2010, for supply to the general public, as a constituent of spray paints or spray cleaners in aerosol dispensers in concentrations equal to or greater than 3 % by weight.</p> <p>2. Spray paints and spray cleaners in aerosol dispensers containing DEGBE and not conforming to paragraph 1 shall not be placed on the market for supply to the general public after 27 December 2010.</p> <p>3. Without prejudice to other Community legislation concerning the classification, packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that paints other than spray paints containing DEGBE in concentrations equal to or greater than 3 % by weight of that are placed on the market for supply to the general public are visibly, legibly and indelibly marked by 27 December 2010 as follows:</p> <p>"Do not use in paint spraying equipment".</p>

### 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

H225 Highly flammable liquid and vapour.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.

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H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.  
H302+H332 Harmful if swallowed or if inhaled.

### 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.  
P233 Keep container tightly closed.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P370+P378 In case of fire: Use powder extinguisher/sand/carbon dioxide to extinguish.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.

### A list of additional standard phrases used in the safety data sheet

EUH208 Contains COLOPHONIUM. May produce an allergic reaction.

### 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  
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<sub>50</sub> Concentration of a substance when it is affected 50% of the population  
EINECS European Inventory of Existing Commercial Chemical Substances  
EL<sub>100</sub> Effective Loading for 100% of the tested organisms  
EL<sub>50</sub> Effective Loading for 50% of the tested organisms  
EmS Emergency plan  
EU European Union  
EuPCS European Product Categorisation System  
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<sub>50</sub> Lethal concentration of a substance in which it can be expected death of 50% of the population  
LD<sub>50</sub> Lethal dose of a substance in which it can be expected death of 50% of the population  
LL<sub>100</sub> Lethal Loading for 100% of tested organisms  
LL<sub>50</sub> Lethal Loading for 50% of tested organisms  
log K<sub>ow</sub> 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  
ppm Parts per million  
REACH Registration, Evaluation, Authorisation and Restriction of Chemicals  
RID Agreement on the transport of dangerous goods by rail

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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
Acute Tox.	Acute toxicity
Eye Dam.	Serious eye damage
Flam. Liq.	Flammable liquid
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitization
STOT SE	Specific target organ toxicity - single exposure

### 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 14 September 2022. Changes were made in sections 1, 2, 12, 13, 15 and 16.

### 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.