

SAFETY DATA SHEET

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

Flux TK83

Creation date	29th August 2022	Version	9.0
Revision date	15th January 2026		

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

- 1.1. Product identifier**
 Substance / mixture: Flux TK83
 UFI: 5J10-20DD-F00Y-RSRF
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**
Mixture's intended use
 Flux agent.
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 number: PL9661767714
 Phone: +48 86 274 13 42
 Email: msds@termopasty.pl
 Web address: www.termopasty.com
- Competent person responsible for the safety data sheet**
 Name: AG TermoPasty Grzegorz Gąsowski
 Email: 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.

Flam. Liq. 2, H225
 Skin Sens. 1, H317
 Eye Dam. 1, H318
 STOT SE 3, H336
 STOT RE 2, H373 (lungs) (inhalation)

Most serious adverse physico-chemical effects

Highly flammable liquid and vapour.

Most serious adverse effects on human health and the environment

May cause drowsiness or dizziness. May cause an allergic skin reaction. Causes serious eye damage. May cause damage to the lungs through prolonged or repeated exposure if inhaled.

2.2. Label elements

Hazard pictogram



Signal word

Danger

Hazardous substances

isopropanol
 COLOPHONIUM
 benzoic acid

Hazard statements

H225 Highly flammable liquid and vapour.

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H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H336	May cause drowsiness or dizziness.
H373	May cause damage to the lungs through prolonged or repeated exposure if inhaled.

Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260	Do not breathe vapours.
P280	Wear protective gloves.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a doctor.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P370+P378	In case of fire: Use powder extinguisher/sand/carbon dioxide to extinguish.

Label elements for packages not exceeding 125 ml

Hazard pictogram



Signal word

Danger

Hazardous substances

isopropanol
COLOPHONIUM
benzoic acid

Hazard statements

H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.

Precautionary statements

P280	Wear protective gloves.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a doctor.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.

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: 603-117-00-0 CAS: 67-63-0 EC: 200-661-7 Registration number: 01-2119457558-25-XXXX	isopropanol	<80	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	1

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Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 650-015-00-7 CAS: 8050-09-7 EC: 232-475-7 Registration number: 01-2119480418-32-XXXX	COLOPHONIUM	20-25	Skin Sens. 1, H317	1
Index: 607-705-00-8 CAS: 65-85-0 EC: 200-618-2 Registration number: 01-211945536-33-XXXX	benzoic acid	<5	Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT RE 1, H372 (lungs) (inhalation)	
Index: 607-144-00-9 CAS: 124-04-9 EC: 204-673-3 Registration number: 01-2119457561-38-XXXX	adipic acid	<3	Eye Irrit. 2, H319	

Notes

1 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

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 or 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. No neutralization should be performed in any case! Rinsing should be continued for 10-30 minutes from the inner to the outer eye corner to make sure that the other eye is not involved. Depending on the situation, call medical rescue service or ensure medical treatment as promptly as possible. Everyone must be referred for treatment even if affected only a little.

If swallowed

Rinse out the mouth with clean water. In the event of issues, find medical help.

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

If inhaled

Inhaling vapours can cause corrosion of the breathing system. Cough, headache. May cause drowsiness or dizziness.

If on skin

May cause an allergic skin reaction.

If in eyes

Causes serious eye damage.

If swallowed

Corrosion of the digestion system can occur.

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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. 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 mist/vapours/spray. 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

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 mist/vapours/spray. Prevent contact with skin and eyes. No smoking. Contaminated work clothing should not be allowed out of the workplace. 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 action to prevent static discharges.

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
50 ml	bottle	HDPE
100 ml	bottle	HDPE
1000 ml	bottle	FE
500 ml	bottle	HDPE
8 ml	syringe	HDPE

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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.

United Kingdom

EH40/2005 Workplace exposure limits (Fourth Edition 2020)

Substance name (component)	Type	Value
isopropanol (CAS: 67-63-0)	WEL 8h	999 mg/m ³
	WEL 8h	400 ppm
	WEL 15min	1250 mg/m ³
	WEL 15min	500 ppm

United Kingdom

EH40/2005 Workplace exposure limits (Fourth Edition 2020)

Substance name (component)	Type	Value
COLOPHONIUM (CAS: 8050-09-7)	WEL 8h	0,05 mg/m ³
	WEL 15min	0,15 mg/m ³

Notes

Capable of causing occupational asthma.

DNEL

adipic acid			
Workers / consumers	Route of exposure	Value	Effect
Workers	Inhalation	5 mg/m ³	Acute effects local

benzoic acid			
Workers / consumers	Route of exposure	Value	Effect
Workers	Dermal	62.5 mg/kg bw/day	Chronic effects systemic
Workers	Inhalation	0.1 mg/l	Chronic effects local
Workers	Inhalation	3 mg/m ³	Chronic effects systemic
Consumers	Oral	16.6 mg/kg bw/day	Chronic effects systemic
Consumers	Dermal	31.25 mg/kg bw/day	Chronic effects systemic
Consumers	Inhalation	1.5 mg/m ³	Chronic effects systemic
Consumers	Inhalation	0.06 mg/m ³	Chronic effects local

COLOPHONIUM			
Workers / consumers	Route of exposure	Value	Effect
Workers	Dermal	25 mg/kg bw/day	Chronic effects systemic
Workers	Inhalation	176.32 mg/m ³	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 ³	Chronic effects systemic

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isopropanol

Workers / consumers	Route of exposure	Value	Effect
Workers	Inhalation	500 mg/m ³	Chronic effects systemic
Workers	Dermal	888 mg/kg bw/day	Chronic effects systemic
Consumers	Inhalation	89 mg/m ³	Chronic effects systemic
Consumers	Dermal	319 mg/kg bw/day	Chronic effects systemic
Consumers	Oral	26 mg/kg bw/day	Chronic effects systemic

PNEC

adipic acid

Route of exposure	Value
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

benzoic acid

Route of exposure	Value
Drinking water	0.34 mg/l
Marine water	0.034 mg/l
Water (intermittent release)	0.331 mg/l
Freshwater sediment	1.75 mg/kg of dry substance
Sea sediments	0.175 mg/kg of dry substance
Soil (agricultural)	0.151 mg/kg of dry substance
Microorganisms in sewage treatment	100 mg/l

COLOPHONIUM

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

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

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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 or face shield (based on the nature of the work performed).

Skin protection

Hand protection: Protective gloves resistant to the product. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Observe other recommendations of the manufacturer. Other protection: protective workwear. 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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	liquid
Colour	data not available
Odour	containing alcohol
Melting point/freezing point	data not available
Boiling point or initial boiling point and boiling range	data not available
Flammability	data not available
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	data not available
Kinematic viscosity	data not available
Solubility in water	data not available
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	data not available
Density and/or relative density	
Density	0.86 g/cm ³ at 20 °C
Relative vapour density	data not available
Particle characteristics	data not available
Form	liquid

9.2. Other information

Solid content (dry matter)	24 % volume
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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.

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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

Hazardous substances in concentrations exceeding exposure limits may cause acute inhalation poisoning, depending on the concentration and duration of exposure. No toxicological data is available for the mixture.

Acute toxicity

Data for the mixture are not available. Based on the available data, the criteria for classification of the mixture are not met.

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

benzoic acid					
Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD ₅₀	2250 mg/kg		Rat	
Inhalation	LC ₅₀	>12.2 mg/l	4 hours	Rat	
Dermal	LD ₅₀	>2000 mg/kg		Rabbit	

COLOPHONIUM					
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	

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	

Skin corrosion/irritation

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

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Serious eye damage/irritation

Causes serious eye damage.

adipic acid			
Route of exposure	Result	Exposure time	Species
	Serious eye damage		

Respiratory or skin sensitisation

May cause an allergic skin reaction. Data for the components of the mixture are not available.

Germ cell mutagenicity

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

Carcinogenicity

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

Reproductive toxicity

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

Toxicity for specific target organ - single exposure

May cause drowsiness or dizziness. Data for the components of the mixture are not available.

Toxicity for specific target organ - repeated exposure

May cause damage to the lungs through prolonged or repeated exposure if inhaled. Data for the components of the mixture are not available.

Aspiration hazard

No data are available for either the mixture or the components. Based on the available data, the criteria for classification of the mixture are not met.

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

not available

Acute toxicity

adipic acid						
Parameter	Method	Value	Exposure time	Species	Environment	Source
LCO		≥1000 mg/l	96 hours	Fish (Branchydanio rerio)		
LC ₅₀	OECD 202	46 mg/l	48 hours	Daphnia (Daphnia magna)		
EC ₅₀	OECD 201	59 mg/l	72 hours	Algae (Pseudokirchneriella subcapitata)		

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adipic acid

Parameter	Method	Value	Exposure time	Species	Environment	Source
EC ₅₀	OECD 209	7911 mg/l	3 hours	Microorganisms	Activated sludge	
NOEC	OECD 211	6.3 mg/l	21 days	Aquatic invertebrates (Daphnia magna)		

benzoic acid

Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀		44.6 mg/l	96 hours	Fish		
EC ₅₀		>100 mg/l	48 hours	Invertebrates		
EC ₅₀		>33.1 mg/l	72 hours	Algae		
NOEC		>120 mg/l	28 days	Fish		
EC ₅₀		102-500 mg/l	24 hours	Invertebrates		
NOEC		≥25 mg/l	21 days	Invertebrates		
NOEC		3.4 mg/l	72 hours	Algae		

COLOPHONIUM

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.

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isopropanol						
Parameter	Method	Value	Exposure time	Species	Environment	Source
LC ₅₀		9640 mg/l	96 hours	Fish		
EC ₅₀		13299 mg/l	48 hours	Crustaceans		
EC ₅₀		1000 mg/l	72 hours	Algae (Scenedesmus subspicatus)		

12.2. Persistence and degradability

not available

Biodegradability

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

benzoic acid					
Parameter	Method	Value	Exposure time	Environment	Result
					Easily biodegradable

COLOPHONIUM					
Parameter	Method	Value	Exposure time	Environment	Result
					Easily biodegradable

12.3. Bioaccumulative potential

Data not available.

benzoic acid	
Parameter	Value
Log Pow	1.88

COLOPHONIUM	
Parameter	Value
BCF	56.23 ml/kg

12.4. Mobility in soil

Data 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

Data not available.

SECTION 13: Disposal considerations

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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. 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.

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 1993

14.2. UN proper shipping name

FLAMMABLE LIQUID, N.O.S. (isopropyl alcohol)

14.3. Transport hazard class(es)

3 Flammable liquids

14.4. Packing group

III

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.

30

UN number

1993

Classification code

F1

Safety signs

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Road transport - ADR

Special provisions	274, 601
Limited quantities	5 L
Excepted quantities	E1

Packaging

Packing instructions	P001, IBC03, LP01, R001
Mixed packing provisions	MP19

Portable tanks and bulk containers

Guidelines	T4
Special provisions	TP1, TP29

ADR tank

Tank code	LGBF
Vehicles for tank carriage	FL
Transport category	3
Tunnel restriction code	(D/E)

Special provision for

packages	V12
operation	S2

Railway transport - RID

Special provisions	274, 601
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Packaging

Packing instructions	P001, IBC03, LP01, R001
Mixed packing provisions	MP19

Portable tanks and bulk containers

Guidelines	T4
Special provisions	TP1, TP29

RID Tanks

Tank code	LGBF
Transport category	3

Special provision for

packages	W12
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Marine transport - IMDG

EmS (emergency plan)	F-E, S-E
MFAG	310

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. 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

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.

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- | | |
|------|--|
| H336 | May cause drowsiness or dizziness. |
| H372 | Causes damage to the lungs through prolonged or repeated exposure if inhaled. |
| H373 | May cause damage to the lungs through prolonged or repeated exposure if inhaled. |

Guidelines for safe handling used in the safety data sheet

- | | |
|----------------|--|
| P280 | Wear protective gloves. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P310 | Immediately call a doctor. |
| P333+P313 | If skin irritation or rash occurs: Get medical advice/attention. |
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P260 | Do not breathe vapours. |
| P370+P378 | In case of fire: Use powder extinguisher/sand/carbon dioxide to extinguish. |

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 | 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 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 Response Procedures for Ships Carrying Dangerous Goods |
| EU | European Union |
| EuPCS | European Product Categorisation System |
| Eye Dam. | Serious eye damage |
| Eye Irrit. | Eye irritation |
| 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 |

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REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulation concerning the International Carriage of Dangerous Goods by Rail
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitization
STOT RE	Specific target organ toxicity - repeated exposure
STOT SE	Specific target organ toxicity - single exposure
UN number	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 Friday, 31 January 2025. Changes were made in sections 2, 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.