

according to UK REACH Regulation

Fixing mixture for blood and bone marrow smears

Revision date: 22.02.2024

Product code: 15231.xxxxx

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

1.1. Product identifier

Fixing mixture for blood and bone marrow smears

UFI:

JN5C-41KP-100V-YWSQ

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

Use of the substance/mixture

Use as laboratory reagent. Intended for scientific research and development.

Uses advised against

Any non-intended use.

1.3. Details of the supplier of the safety data sheet

Company name:	MORPHISTO GmbH	
Street:	Schumannstr. 142/144	
Place:	D-63069 Offenbach	
Telephone:	+49 (0) 69 / 400 3019-60	Telefax: +49 (0) 69 / 400 3019-64
E-mail:	info@morphisto.de	
Contact person:	Morphisto GmbH	
E-mail:	gefahrstoffmanagement@morphisto.de	
Internet:	http://www.morphisto.de	
1.4. Emergency telephone	Poison Information Center Mainz, Germany, T	ēl: +49(0)6131/19240

number:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Flam. Liq. 2; H225 Eye Irrit. 2; H319 Skin Sens. 1; H317 Muta. 2; H341 Carc. 1B; H350 STOT SE 3; H336

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation

- Hazard components for labelling
 - 2-propanol formaldehyde...%

Signal word:

Pictograms:



Hazard statements

H225	Highly flammable liquid and vapour.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H341	Suspected of causing genetic defects.



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Labelling of packages where the contents do not exceed 125 ml

Signal word:





Hazard statements H317-H341-H350

Precautionary statements

P201-P261-P280-P308+P313

2.3. Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulating and toxic (PBT) or very persistent and very bioaccumulating (vPvB) at levels of 0.1% or higher. Ecological information: The substance/mixture does not contain any components that are considered to be hazardous according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in amounts of 0.1 % or more have endocrine disrupting properties. Toxicological information: The substance/mixture does not contain any components that are to be classified according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1 % or more have endocrine disrupting properties.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Relevant ingredients

CAS No	Chemical name	Quantity			
	EC No	Index No	REACH No		
	Classification (GB CLP Re				
67-63-0	2-propanol			60 - < 65 %	
	200-661-7				
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336				
50-00-0	formaldehyde%	1 - < 5 %			
	200-001-8	605-001-00-5	01-2119488953-20		
	Carc. 1B, Muta. 2, Acute 1 H341 H331 H311 H301 H3	Skin Corr. 1B, Skin Sens. 1; H350			
67-56-1	methanol	< 1 %			
	200-659-6	603-001-00-X	01-2119433307-44		
	Flam. Liq. 2, Acute Tox. 3,				

Full text of H and EUH statements: see section 16.



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Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc.	Limits, M-factors and ATE	
67-63-0	200-661-7	2-propanol	60 - < 65 %
	dermal: LD50	= >5000 mg/kg; oral: LD50 = >5000 mg/kg	
50-00-0	200-001-8	formaldehyde%	1 - < 5 %
	292 mg/kg; ora	50 = 3 mg/l (vapours); inhalation: ATE = 0,5 mg/l (dusts or mists); dermal: LD50 = il: LD50 = 100 mg/kg Skin Corr. 1B; H314: >= 25 - 100 Skin Irrit. 2; H315: >= 5 - . 2; H319: >= 5 - < 25 Skin Sens. 1; H317: >= 0,2 - 100 STOT SE 3; H335: >= 5	
67-56-1	200-659-6	methanol	< 1 %
		50 = 3 mg/l (vapours); inhalation: ATE = 0,5 mg/l (dusts or mists); dermal: LD50 = l: LD50 = 100 mg/kg STOT SE 1; H370: >= 10 - 100 STOT SE 2; H371: >= 3 -	

Further Information

This product contains no substances of very high concern (SVHC) (>0,1%) which are included in the Candidate List according to Article 59 of REACH.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). First aider: Pay attention to self-protection! Remove affected person from the danger area and lay down. Do not leave affected person unattended. Ventilate affected area. Take off immediately all contaminated clothing. Call a physician in any case! Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.

After inhalation

When in doubt or if symptoms are observed, get medical advice. Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator. Medical treatment necessary.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary. Causes poorly healing wounds.

After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately. Remove contact lenses, if present and easy to do. Continue rinsing.

After ingestion

Observe risk of aspiration if vomiting occurs. If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Let water be drunken in little sips (dilution effect). Do NOT induce vomiting. Immediately call a POISON CENTER/doctor/.

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

Headache Dizziness Unconsciousness Dyspnoea Nausea Cough

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water spray jet, Carbon dioxide (CO2), Foam, Extinguishing powder.



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Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Highly flammable. Vapours can form explosive mixtures with air. In case of fire may be liberated: Carbon monoxide (CO). Carbon dioxide (CO2).

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit. In case of fire and/or explosion do not breathe fumes. Co-ordinate fire-fighting measures to the fire surroundings.

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Remove all sources of ignition. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment. Remove persons to safety. Provide adequate ventilation.

6.2. Environmental precautions

Do not allow uncontrolled discharge of product into the environment. Explosion risk. Do not allow to enter into surface water or drains. Discharge into the environment must be avoided.

6.3. Methods and material for containment and cleaning up

For cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

Other information

Clear contaminated areas thoroughly. Ventilate affected area.

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. Use extractor hood (laboratory). Wear suitable protective clothing. (See section 8.). Keep away from sources of ignition - No smoking. .

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapours can form explosive mixtures with air. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches.

Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff. Wear personal protection equipment. Always close containers tightly after the removal of product.

Further information on handling

When using do not eat, drink, smoke, sniff. Handle and open container with care. Flammable vapours can accumulate in head space of closed systems. Avoid contact with skin, eyes and clothes. Use personal protective



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equipment as required. Take off contaminated clothing and wash it before reuse. General protection and hygiene measures: refer to chapter 8

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaustion at critical locations. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaustion at critical locations. Provide adequate ventilation as well as local exhaustion at critical locations. Provide adequate ventilation of the storage area.

Hints on joint storage

Do not store together with: Oxidizing agent. Pyrophoric or self-heating substances. Do not store together with:Gas. Explosives. Pyrophoric liquids and solids. Self-heating substances and mixtures. Substances or mixtures which, in contact with water, emit flammable gases. Oxidizing liquids. ammonium nitrate. Self-reactive substances and mixtures. Organic peroxides. Non-combustible toxic substances. Radioactive substances. Infectious substances.

Further information on storage conditions

Store small packages in a suitable, robust cabinet. Protect against: UV-radiation/sunlight. heat.Frost storage temperature: 15-25 °C

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
50-00-0	Formaldehyde	2	2.5		TWA (8 h)	WEL
		2	2.5		STEL (15 min)	WEL
67-56-1	Methanol	200	266		TWA (8 h)	WEL
		250	333		STEL (15 min)	WEL
67-63-0	Propan-2-ol	400	999		TWA (8 h)	WEL
		500	1250		STEL (15 min)	WEL



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DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
67-63-0	2-propanol			
Worker DNEI	_, long-term	inhalation	systemic	500 mg/m³
Consumer DI	NEL, long-term	inhalation	systemic	89 mg/m³
Worker DNEI	_, long-term	dermal	systemic	888 mg/kg bw/day
Consumer DI	NEL, long-term	oral	systemic	26 mg/kg bw/day
Consumer DI	NEL, long-term	dermal	systemic	319 mg/kg bw/day
50-00-0	formaldehyde%			
Worker DNEI	_, acute	inhalation	systemic	1 mg/m³
Worker DNEI	_, long-term	dermal	systemic	240 mg/kg bw/day
Worker DNEI	_, long-term	inhalation	systemic	0,5 mg/m³
Worker DNEI	_, long-term	inhalation	local	0,375 mg/m³
Worker DNEI	_, acute	inhalation	local	0,75 mg/m³
Worker DNEI	_, long-term	dermal	local	0,037 mg/cm ²
67-56-1	methanol			
Worker DNEI	_, acute	inhalation	local	260 mg/m³
Worker DNEI	_, acute	dermal	systemic	40 mg/kg bw/day
Worker DNEI	_, acute	inhalation	systemic	260 mg/m³
Worker DNEI	_, long-term	inhalation	local	260 mg/m³
Worker DNEI	_, long-term	dermal	systemic	40 mg/kg bw/day
Worker DNEI	_, long-term	inhalation	systemic	260 mg/m³



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PNEC values

CAS No	Substance		
Environment	tal compartment	Value	
67-63-0	2-propanol		
Freshwater		140,9 mg/l	
Marine water	r	140,9 mg/l	
Freshwater s	sediment	552 mg/kg	
Marine sedin	nent	552 mg/kg	
Secondary p	oisoning	160 mg/kg	
Soil		28 mg/kg	
50-00-0	formaldehyde%		
Freshwater		0,44 mg/l	
Freshwater ((intermittent releases)	4,44 mg/l	
Marine water	r	0,44 mg/l	
Freshwater s	sediment	2,3 mg/kg	
Marine sedin	nent	2,3 mg/kg	
Micro-organi	isms in sewage treatment plants (STP)	0,19 mg/l	
Soil		0,2 mg/kg	
67-56-1	methanol		
Freshwater		20,8 mg/l	
Marine water	r	2,08 mg/l	
Marine water	1540 mg/l		
Freshwater sediment 77 m			
Marine sediment 7,7 mg/kg			
Micro-organi	isms in sewage treatment plants (STP)	100 mg/l	
Soil		3,18 mg/kg	

8.2. Exposure controls



Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. Use extractor hood (laboratory).

Individual protection measures, such as personal protective equipment

Eye/face protection

Suitable eye protection: goggles. Tightly sealed safety glasses. EN 166

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Pull-over gloves of rubber. EN ISO 374 Suitable material:

Butyl rubber. Thickness of material: 0,5mm penetration time (maximum wearing period): >= 8 h NBR (Nitrile rubber) Thickness of material :0,35mm Breakthrough time:: >= 8 h



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Eiving	mixture for blood and bone merrow emerro	
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FKM (fluoro rubber) Thickness of ma Before using check leak tightness / ir	terial : 0,4mmBreakthrough time:: >= 8 h npermeability.	
Skin protection	Near anti-static footwear and clothing . Suitable protective clothing: Lab	
apron.		
Respiratory protection		
Generation/formation of aerosols exceeding exposure limit values Insufficient ventilation. Suitable respiratory protective equipr The filter class must be suitable for th	ar respiratory protection. Respiratory protection necessary at: ment: gas filtering equipment (EN 141). Typ: a me maximum contaminant concentration (gas/vapour/aerosol/particulates) oduct. If the concentration is exceeded, self-contained breathing apparatus	
Details on the requirements for use a	and maximum concentrations can be found in the "Rules for the use of	
respiratory protective devices" (BGR	190).	
Thermal hazards		
Flame-retardant protective clothing.	Near anti-static footwear and clothing .	
Environmental exposure controls		
Do not allow to enter into surface wat	ter or drains. Discharge into the environment must be avoided.	
SECTION 9: Physical and chemical pro	operties	
,		
9.1. Information on basic physical and che	emical properties	
Physical state:	liquid	
Colour:	colourless	
Odour:	stinging - alcoholic	
Odour threshold:	No information available.	
Melting point/freezing point:	not determined	
Boiling point or initial boiling point and boiling range:	not determined	
Flammability:	not applicable	
Lower explosion limits:	not determined	
Upper explosion limits:	not determined	
Flash point:	12 °C	
Auto-ignition temperature:	not determined	
Decomposition temperature:	not determined	
pH-Value (at 20 °C):	5-7	
Viscosity / kinematic:	not determined	
Water solubility: (at 20 °C)	easily soluble	
Solubility in other solvents		
No information available.		
Partition coefficient n-octanol/water:	not determined	
Vapour pressure:	42 hPa	
(at 20 °C)	-	
Density (at 20 °C):	0,85 g/cm³	
Relative vapour density:	not determined	
Particle characteristics:	not applicable	
9.2. Other information		
Information with regard to physical haz	zard classes	

Information with regard to physical hazard classes Explosive properties

The product is not: Explosive. In case of insufficient ventilation and/or through use, explosive/highly flammable



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mixtures may develop. Self-ignition temperature Solid: Gas: Oxidizing properties Combustible.	not applicable not applicable					
Other safety characteristics						
Evaporation rate:	not determined					
Solid content:	not determined					
Sublimation point:	not applicable					
Softening point:	No information available.					
Pour point:	No information available.					

Further Information

No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Highly flammable.

10.2. Chemical stability

Stable under normal storage and handling conditions.

10.3. Possibility of hazardous reactions

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. This material can be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, mechanical/electrical equipment, and electronic devices such as cell phones, computers, calculators, and pagers which have not been certified as intrinsically safe). Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Vapours can form explosive mixtures with air. Vapours can travel considerable distances to a source of ignition where they can ignite, flash back, or explode. Vapours of flammable solvents can accumulate in the gas phase of closed container, especially during heat treatment. Therefore keep away from fire and sources of ignition.

10.5. Incompatible materials

Materials to avoid:Oxidizing agents. Substances that form flammable gases when in contact with water. Organic peroxides. Inflammatory substances. Alkali metals. Chloroform. nitric acid. hydrogenium peroxide. bromine. Oxidizing agents. Reducing agents. Fluorine. nitrosyl compounds.

10.6. Hazardous decomposition products

In case of fire may be liberated: Carbon monoxide (CO). Carbon dioxide (CO2).

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

Acute toxicity

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

ATEmix calculated

ATE (oral) 5254 mg/kg; ATE (dermal) 15428 mg/kg; ATE (inhalation vapour) 157,6 mg/l; ATE (inhalation dust/mist) 26,27 mg/l



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CAS No	Chemical name							
	Exposure route	Dose		Species	Source	Method		
67-63-0	2-propanol							
	oral	LD50 mg/kg	>5000	Rat	ECHA Dossier			
	dermal	LD50 mg/kg	>5000	Rabbit	ECHA Dossier			
50-00-0	formaldehyde%							
	oral	LD50 mg/kg	100	Rat	GESTIS			
	dermal	LD50 mg/kg	292	Rabbit	GESTIS			
	inhalation (4 h) vapour	LC50	3 mg/l	Rat	suppliers SDS.			
	inhalation dust/mist	ATE	0,5 mg/l					
67-56-1	methanol							
	oral	LD50 mg/kg	100	Rat	suppliers SDS.			
	dermal	LD50 mg/kg	300	Rabbit	suppliers SDS.			
	inhalation (4 h) vapour	LC50	3 mg/l	Rat	suppliers SDS.			
	inhalation dust/mist	ATE	0,5 mg/l					

Irritation and corrosivity

Causes serious eye irritation.

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

Sensitising effects

May cause an allergic skin reaction. (formaldehyde%)

Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of causing genetic defects. (formaldehyde%)

May cause cancer. (formaldehyde%)

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

STOT-single exposure

May cause drowsiness or dizziness. (2-propanol)

STOT-repeated exposure

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

Aspiration hazard

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

Additional information on tests

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP]. Special hazards arising from the substance or mixture!

11.2. Information on other hazards

Endocrine disrupting properties

This product does not contain any substance that has endocrine disrupting properties in humans as no ingredient meets the criteria.

Other information

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP]. Special hazards arising from the substance or mixture!

SECTION 12: Ecological information

12.1. Toxicity



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

CAS No	Chemical name								
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method		
67-63-0	2-propanol								
	Acute fish toxicity	LC50 mg/l	9640	96 h	Pimephales promelas	ECHA Dossier	OECD Guideline 203		
	Acute algae toxicity	ErC50 mg/l	1800	96 h	Scenedesmus quadricauda	ECHA Dossier			
	Acute crustacea toxicity	EC50 mg/l	>10000	48 h	Daphnia magna (24h)	ECHA Dossier	OECD Guideline 202		
50-00-0	0-0 formaldehyde%								
	Acute fish toxicity	LC50 mg/l	24,1	96 h	Pimephales promelas	ECHA Dossier			
	Acute algae toxicity	ErC50 mg/l	4,89	72 h	Desmodesmus subspicatus	ECHA Dossier			
	Acute crustacea toxicity	EC50	5,8 mg/l	48 h	Daphnia pulex (water flea)	ECHA Dossier			
67-56-1	methanol								
	Acute fish toxicity	LC50 mg/l	15400	96 h	Lepomis macrochirus	ECHA Dossier			
	Acute algae toxicity	ErC50 mg/l	22000	96 h	Pseudokirchneriella subcapitata	ECHA Dossier			
	Acute crustacea toxicity	EC50 mg/l	>1000	48 h	Daphnia magna	ECHA Dossier	OECD 202		

12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name									
	Method	Value	d	Source						
	Evaluation									
67-63-0	2-propanol									
	EU Method C.5/ EU Method C.6	53%	5	ECHA Dossier						
	Easily biodegradable (concerning to the criteria of the OECD)								
50-00-0	formaldehyde%									
	OECD Guideline 301 C	91 %	14	ECHA Dossier						
	Easily biodegradable (concerning to the criteria of the OECD)								
	OECD Guideline 301 D	90	28	ECHA Dossier						
	Product is biodegradable.									
67-56-1	methanol									
	other guideline	96%	20	ECHA Dossier						
	Easily biodegradable (concerning to the criteria of the OECD)									

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
67-63-0	2-propanol	0,05
50-00-0	formaldehyde%	0,35
67-56-1	methanol	-0,77



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BCF

CAS No	Chemical name	BCF	Species	Source
67-56-1	methanol	<10		

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

No information available.

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Do not allow uncontrolled discharge of product into the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation. Consult the local waste disposal expert about waste disposal. Non-contaminated packages may be recycled. According to (EWC) European Waste Catalogue, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process. Control report for waste code/ waste marking according to (EWC) European Waste Catalogue:

List of Wastes Code - residues/unused products

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals; hazardous waste

List of Wastes Code - used product

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals; hazardous waste

List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

Contaminated packaging

Hazardous waste according to Directive 2008/98/EC (waste framework directive). Handle contaminated packages in the same way as the substance itself. Non-contaminated packages may be recycled.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:	UN 1219
14.2. UN proper shipping name:	ISOPROPANOL
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
Hazard label:	3



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Classification code:	F1		
Special Provisions:	601		
Limited quantity:	1 L		
Excepted quantity:	E2		
Transport category:	2		
Hazard No:	33		
Tunnel restriction code:	D/E		
Inland waterways transport (ADN)			
14.1. UN number or ID number:	UN 1219		
14.2. UN proper shipping name:	ISOPROPANOL		
14.3. Transport hazard class(es):	3		
14.4. Packing group:	11		
Hazard label:	3		
Classification code:	F1		
Special Provisions:	601		
Limited quantity:	1 L		
Excepted quantity:	E2		
Marine transport (IMDG)			
<u>14.1. UN number or ID number:</u>	UN 1219		
14.2. UN proper shipping name:	ISOPROPANOL		
14.3. Transport hazard class(es):	3		
14.4. Packing group:	I		
Hazard label:	3		
Special Provisions:	-		
Limited quantity:	1 L		
Excepted quantity:	E2		
EmS:	F-E, S-D		
Air transport (ICAO-TI/IATA-DGR)			
<u>14.1. UN number or ID number:</u>	UN 1219		
14.2. UN proper shipping name:	ISOPROPANOL		
14.3. Transport hazard class(es):	3		
14.4. Packing group:			
Hazard label:	3		
Special Provisions:	A180		
Limited quantity Passenger:	1 L		
Passenger LQ:	Y341		
Excepted quantity:	E2		
IATA-packing instructions - Passenger:		353	
IATA-max. quantity - Passenger:		5 L	



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IATA-packing instructions - Cargo: IATA-max. quantity - Cargo:	364 60 L		
14.5. Environmental hazards			
ENVIRONMENTALLY HAZARDOUS:	No		
14.6. Special precautions for user Warning: Combustible liquid. Refer to s 14.7. Maritime transport in bulk according to			
not relevant			
SECTION 15: Regulatory information			
15.1. Safety, health and environmental regul	ations/legislation specific for the substance or mixture		
EU regulatory information Restrictions on use (REACH, annex XVII): Entry 3, Entry 40, Entry 75 Information according to Directive	P5c FLAMMABLE LIQUIDS		
2012/18/EU (SEVESO III):			
Additional information			
	nse of regulation (EC) No 1272/2008 [GHS].		
National regulatory information			
Employment restrictions:	Observe restrictions to employment for juveniles according to the 'ju work protection guideline' (94/33/EC). Observe employment restrict under the Maternity Protection Directive (92/85/EEC) for expectant of nursing mothers.	ions	
Water hazard class (D):	3 - highly hazardous to water		
Skin resorption/Sensitization:	Causes allergic hypersensitivity reactions.		
Additional information			
	s Prohibition Ordinance (ChemVerbotsV). Observe the requirements using in Section 3 of the ChemVerbotsV, among others.		
15.2. Chemical safety assessment			
For the following substances of this mix 2-propanol formaldehyde%	xture a chemical safety assessment has been carried out:		

formaldehyde% methanol

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16. Rev. 2,0; 22.02.2024; Individual safety data sheet based on12786_collect



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Abbreviations and acronyms Flam. Liq: Flammable liquids Acute Tox: Acute toxicity Skin Corr: Skin corrosion Product code: 15231.xxxxx

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Eye Irrit: Eye irritation Skin Sens: Skin sensitisation Muta: Germ cell mutagenicity Carc: Carcinogenicity STOT SE: Specific target organ toxicity - single exposure ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organization ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO) GHS: Globally Harmonized System of Classification and Labelling of Chemicals OSHA: Occupational Safety and Health Administration LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent NOEL: No observed effect level NOAEL: No observed adverse effect level LOAEL: Lowest observed adverse effect level NOAEC: No observed adverse effect level LOAEC: Lowest observed adverse effect concentration DNEL: Derived No Effect Level PNEC: predicted no effect concentration TSCA: Toxic Substances Control Act IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER NTP: National Toxicology Program SARA: Superfund Amendments and Reauthorization Act GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany) PBT: Persistent bioaccumulative toxic SVHC: substance of very high concern CLP: Classification, labelling and Packaging REACH: Registration, Evaluation and Authorization of Chemicals GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals UN: United Nations CAS: Chemical Abstracts Service DNEL: Derived No Effect Level DMEL: Derived Minimal Effect Level PNEC: Predicted No Effect Concentration ATE: Acute toxicity estimate LL50: Lethal loading, 50% EL50: Effect loading, 50% EC50: Effective Concentration 50% ErC50: Effective Concentration 50%, growth rate NOEC: No Observed Effect Concentration BCF: Bio-concentration factor PBT: persistent, bioaccumulative, toxic vPvB: very persistent, very bioaccumulative ADR: Accord européen sur le transport des marchandises dangereuses par Route



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(European Agreement concerning the International Carriage of Dangerous Goods by Road) RID: Regulations concerning the international carriage of dangerous goods by rail ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures) EmS: Emergency Schedules MFAG: Medical First Aid Guide MARPOL: International Convention for the Prevention of Marine Pollution from Ships IBC: Intermediate Bulk Container VOC: Volatile Organic Compounds For abbreviations and acronyms, see table at http://abbrev.esdscom.eu For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations). EC/EEC: European Community/European Economic Community EU: European Union M-factor: Multiplying factor IATA: International Air Transport Association DGR: Dangerous Goods Regulations ICAO: International Civil Aviation Organization **TI: Technical Instructions** VOC: volatile organic compound

Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Flam. Liq. 2; H225	On basis of test data
Eye Irrit. 2; H319	Calculation method
Skin Sens. 1; H317	Calculation method
Muta. 2; H341	Calculation method
Carc. 1B; H350	Calculation method
STOT SE 3; H336	Calculation method

e.

Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H336	May cause drowsiness or dizziness.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H370	Causes damage to organs.

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations. The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations to existing laws and regulations. The receiver of our product is singularly responsible for adhering to existing laws and regulations. The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.



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(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)