

DELAUNAY's Fixative

Revision date: 22.06.2023

Product code: 16001.xxxxx

according to UK REACH Regulation

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

1.1. Product identifier

DELAUNAY's Fixative

UFI:

6S9E-V12A-V00X-9SGD

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

Use of the substance/mixture

Use as laboratory reagent. The product is intended for research, analysis and scientific education.

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, Germa	any, Tel: +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 STOT SE 3; H336

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation

- Hazard components for labelling
- Acetone

Signal word: Pictograms:



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.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.



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P280	Wear protective gloves/protective clothing/eye protection/face protection.					
P312	Call a POISON CENTER/doctor if you feel unwell.					
P337+P313	If eye irritation persists: Get medical advice/attention.					
Special labelling of certain mixtures						
EUH066	Repeated exposure may cause skin dryness or cracking.					

Labelling of packages where the contents do not exceed 125 ml

Signal word: Pictograms:



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

Hazardous components

CAS No	Chemical name			
	EC No	Index No	REACH No	
	Classification (GB CLP			
67-64-1	Acetone			45 - < 50 %
	200-662-2			
	Flam. Liq. 2, Eye Irrit. 2,			
64-17-5	Ethanol, Ethylalkohol			45 - < 50 %
	200-578-6	603-002-00-5	01-2119457610-43	
	Flam. Liq. 2, Eye Irrit. 2;			
78-93-3	butanone; ethyl methyl ketone			< 1 %
	201-159-0	606-002-00-3	01-2119457290-43	
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066			

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

Specific Co	onc. Limits, M-fa	ctors and ATE	
CAS No	EC No	Chemical name	(
	Specific Conc	Limits, M-factors and ATE	
67-64-1	200-662-2	Acetone	45 -
	inhalation: LC	50 = 76 mg/l (vapours); dermal: LD50 = 20000 mg/kg; oral: LD50 = 5800 mg/kg	
64-17-5	200-578-6	Ethanol, Ethylalkohol	45 -
		50 = 124,7 mg/l (vapours); dermal: LD50 = >2000 mg/kg; oral: LD50 = >5000 rit. 2; H319: >= 50 - 100	
78-93-3	201-159-0	butanone; ethyl methyl ketone	
	dermal: LD50) = >2000 mg/kg; oral: LD50 = 2054 mg/kg	

Quantity

- < 50 %

- < 50 %

< 1 %



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Further Information

Product does not contain listed SVHC substances > 0,1 % according to Regulation (EC) No. 1907/2006 Article 59 (REACH)

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

First aider: Pay attention to self-protection! In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove contaminated, saturated clothing immediately. Remove casualty to fresh air and keep warm and at rest. To supervise the blood circulation.

After inhalation

Remove casualty to fresh air and keep warm and at rest. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). If unconscious but breathing normally, place in recovery position and seek medical advice. In case of breathing difficulties administer oxygen. As soon as possible glucocorticoid dose aerosol can breathe repeated deep inhalation.

After contact with skin

Take off immediately all contaminated clothing and wash it before reuse. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. If skin irritation or rash occurs: Get medical advice/attention.

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. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

After ingestion

Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Do NOT induce vomiting. Never give anything by mouth to an unconscious person or a person with cramps. Call a physician immediately.

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

Headache. Dizziness. Nausea. Intoxication. unconsciousness. dehydration of skin..Functional disorders of the CNS and cardiovascular system.

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

Carbon dioxide (CO2). Dry extinguishing powder. alcohol resistant foam. Atomized water.

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. Concentrated vapours are heavier than air. Reignition possible over considerable distance.

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

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. In case of fire and/or explosion do not breathe fumes.

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.Fight fire remotely due to the risk of explosion.



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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. Ventilate affected area. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

For non-emergency personnel

Remove persons to safety. Clear danger zone. Follow emergency plan. Consult an expert.

For emergency responders

Move undamaged containers from immediate hazard area if it can be done safely. Stop and contain spill/release if it can be done safely. If this cannot be done, allow fire to burn under control. Beware of reignition.

6.2. Environmental precautions

Do not allow uncontrolled discharge of product into the environment. Explosion risk. Discharge into the environment must be avoided. Prevent spread over a wide area (e.g. by containment or oil barriers). Cover drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

For containment

Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

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. Clean contaminated articles and floor according to the environmental legislation.

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. Provide adequate ventilation as well as local exhaustion at critical locations. Personal protection equipment (See section 8.)Always close containers tightly after the removal of product. Before starting work, apply solvent-resistant skincare preparations. Use only antistatically equipped (spark-free) tools.

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. Flammable vapours can accumulate in head space of closed systems. Heating causes rise in pressure with risk of bursting. Have fire-extinguishers in readiness before opening containers. Wear anti-static footwear and clothing

Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme.Protect skin by using skin protective cream. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff. Take off contaminated clothing and wash it before reuse. Street clothing should be stored separately from work clothing.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Store in a place accessible by authorized persons only. Provide adequate



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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. Keep/Store only in original container. Ensure adequate ventilation of the storage area. Make sure spills can be contained (e.g. sump pallets or kerbed areas). Keep away from flammable materials.

Hints on joint storage

Do not store together with: food and feed. pharmaceuticals. Infectious substances. Radioactive substances. Explosive substances. Oxidizing substances. Oxidizing liquids. Organic peroxides. Self-reactive substances and mixtures. Pyrophoric solids. Substances which in contact with water form flammable gases. Ammonium nitrate and preparations containing ammonium nitrate. Oxidizing agent. Gas. Explosives. Pyrophoric liquids and solids. Oxidizing liquids. Non-combustible toxic substances.

Further information on storage conditions

Keep the packing dry and well sealed to prevent contamination and absorbtion of humidity. Recommended storage temperature: 15-25 °C Protect against: frost. UV-radiation/sunlight. heat. Humidity

7.3. Specific end use(s)

See section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
67-64-1	Acetone	500	1210		TWA (8 h)	WEL
		1500	3620		STEL (15 min)	WEL
78-93-3	Butan-2-one (methyl ethyl ketone)	200	600		TWA (8 h)	WEL
		300	899		STEL (15 min)	WEL
64-17-5	Ethanol	1000	1920		TWA (8 h)	WEL

Biological Monitoring Guidance Values (EH40)

CAS No	Substance	Parameter	Value	Test material	Sampling time
78-93-3	Butan-2-one	butan-2-one	70 µmol/L	urine	Post shift



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DNEL/DMEL values

CAS No	Substance							
DNEL type		Effect	Value					
67-64-1	Acetone							
Worker DNEL,	systemic	1210 mg/m ³						
Worker DNEL,	acute	inhalation	local	2420 mg/m³				
Worker DNEL,	long-term	dermal	systemic	186 mg/kg bw/day				
64-17-5	Ethanol, Ethylalkohol							
Worker DNEL,	acute	inhalation	local	1900 mg/m³				
Worker DNEL,	long-term	dermal	systemic	343 mg/kg bw/day				
Worker DNEL,	long-term	inhalation	systemic	950 mg/m³				
Consumer DNE	EL, acute	inhalation	local	950 mg/m³				
Consumer DNE	EL, long-term	dermal	systemic	206 mg/kg bw/day				
Consumer DNE	EL, long-term	inhalation	systemic	114 mg/m³				
Consumer DNE	EL, long-term	oral	systemic	87 mg/kg bw/day				
PNEC values								
CAS No	CAS No Substance							
Environmental		Value						
67-64-1	Acetone							
Freshwater		10,6 mg/l						
Freshwater (inter		21 mg/l						
Marine water				1,06 mg/l				
Marine water (in	ntermittent releases)			21 mg/l				
Freshwater sed	liment			30,4 mg/kg				
Marine sedimer	nt			3,04 mg/kg				
Micro-organism	is in sewage treatment plants (STP)			100 mg/l				
Soil				29,5 mg/kg				
64-17-5	Ethanol, Ethylalkohol							
Freshwater				0,96 mg/l				
Freshwater (inter		2,75 mg/l						
Marine water		0,79 mg/l						
Marine water (in		2,75 mg/l						
Freshwater sed		3,6 mg/kg						
Marine sedimer		2,9 mg/kg						
Secondary pois		0,72 mg/kg						
Micro-organism	Micro-organisms in sewage treatment plants (STP)							
Soil		0,63 mg/kg						

8.2. Exposure controls





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Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment. If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. Provide adequate ventilation as well as local exhaustion at critical locations.Use extractor hood (laboratory). Provide washing facilities at the workplace, provide an eye shower or eyewash bottle and mark them. Have fire-extinguishers in readiness before opening containers.

Individual protection measures, such as personal protective equipment

Eye/face protection

Suitable eye protection: Eye glasses with side protection 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. In case of prolonged or frequently repeated skin contact: Pull-over gloves of rubber. Suitable material:

Butyl rubber., CR (polychloroprene, chloroprene rubber) (0,5 mm) (penetration time (maximum wearing period): >= 1 h)

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Before using check leak tightness / impermeability. In the case of wanting to use the gloves again, clean them before taking off and air them well.

Skin protection

Protective clothing. (flame-retardant), Wear anti-static footwear and clothing

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500 (D).

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

- Respiratory protection necessary at:
- Insufficient ventilation.

exceeding exposure limit values

Suitable respiratory protective equipment: Self-contained respirator (breathing apparatus)

Thermal hazards

Flame-retardant protective clothing. Wear anti-static footwear and clothing

Environmental exposure controls

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid	
Colour:	colourless	
Odour:	characteristic	
Melting point/freezing point:		-17 °C
Boiling point or initial boiling point a	ind	56 °C
boiling range:		
Flammability:		not applicable
Lower explosion limits:		2,5 vol. %
Upper explosion limits:		15 vol. %
Flash point:		< -20 °C
Auto-ignition temperature:		400 °C
Decomposition temperature:		not determined



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pH-Value:	not determined	
Viscosity / kinematic:	not determined	
Water solubility: (at 20 °C)	miscible.	
Solubility in other solvents miscible.		
Partition coefficient n-octanol/water:	not determined	
Vapour pressure: (at 20 °C)	246 hPa	
Vapour pressure: (at 50 °C)	814 hPa	
Density (at 20 °C):	0,79 g/cm³	
Relative vapour density:	not determined	
9.2. Other information		
Information with regard to physical hazard cla	asses	
Explosive properties May form explosive peroxides. In case of ins mixtures may develop.	sufficient ventilation and/or through use, explosive/highly flamm	able
Sustaining combustion: Oxidizing properties Combustible liquid.	Sustaining combustion	
Other safety characteristics		
Evaporation rate:	not determined	
Viscosity / dynamic: (at 25 °C)	not determined	
Flow time:	not determined	
SECTION 10: Stability and reactivity		

10.1. Reactivity

Highly flammable. Explosive.

10.2. Chemical stability

Decomposes when heated.

10.3. Possibility of hazardous reactions

Explosion risk in contact with:Violent reaction with: Hydrogenium peroxide. Oxidizing agents, strong. Acids. Bromine triflouride. Chloroform. Chlorine. potassium. Calciumhypochlorite. Halogenes. Acetic anhydride. Chlorates. permanganates, e.g. potassium permanganate. Mixtures of sodium hypochlorite. Sodium peroxide. nitrosyl compounds. mercury (Hg). Oxygen. Silver nitrates. Nitrogen monoxide, nitrogen dioxide, nitrous oxide, ammonia.

10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air. Handle with care - avoid bumps, friction and impact. Explosive. Remove all sources of ignition. Keep away from: Heat. Ignition. Protect from direct sunlight.

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge.

10.5. Incompatible materials

Protect against: Contact with air/oxygen. Oxidizing agents. Strong acid Base. Fluorine. Reducing agents. Nitric acid. Alkali metals. Halogenes. Sulphur dioxide (SO2).. Hydrogenium peroxide. Bromine triflouride. Chloroform. difluordioxide. isoprene. nitrosulphic acid. nitromethane. nitrosyl chloride (catalyst). nitrosyl perchlorate. peroxomonosulfuric acid. phosphoryl chloride. Information is given in subsection 10.3.

10.6. Hazardous decomposition products

May form explosive peroxides. In case of fire may be liberated: Carbon monoxide, Carbon dioxide (CO2).



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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) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

CAS No	Chemical name						
	Exposure route	Dose		Species	Source	Method	
67-64-1	Acetone						
	oral	LD50 mg/kg	5800	Rat	RTECS		
	dermal	LD50 mg/kg	20000	Rabbit	IUCLID		
	inhalation (4 h) vapour	LC50	76 mg/l	Rat			
64-17-5	Ethanol, Ethylalkohol						
	oral	LD50 mg/kg	>5000	Rat	ECHA Dossier		
	dermal	LD50 mg/kg	>2000	Rabbit	ECHA Dossier		
	inhalation (4 h) vapour	LC50 mg/l	124,7	Rat	ECHA Dossier		
78-93-3	butanone; ethyl methyl k	etone					
	oral	LD50 mg/kg	2054	Ratte	SDB Lieferant		
	dermal	LD50 mg/kg	>2000	Rabbit	ECHA Dossier		

Irritation and corrosivity

Causes serious eye irritation.

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

Sensitising effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

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

STOT-single exposure

May cause drowsiness or dizziness. (Acetone)

STOT-repeated exposure

Repeated exposure may cause skin dryness or cracking.

Aspiration hazard

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

11.2. Information on other hazards

Endocrine disrupting properties

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

Further information

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].



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SECTION 12: Ecological information

12.1. Toxicity

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

CAS No	Chemical name							
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method	
67-64-1	Acetone							
	Acute fish toxicity	LC50 mg/l	5540	96 h	Oncorhynchus mykiss	ECHA		
	Acute crustacea toxicity	EC50 mg/l	6100	48 h	Daphnia magna	ECHA		
	Acute bacteria toxicity	(EC50 mg/l)	61150	0,5 h		ECHA		
64-17-5	Ethanol, Ethylalkohol							
	Acute fish toxicity	LC50 mg/l	14200	96 h	Pimephales promelas (fathead minnow)	ECHA Dossier		
	Acute algae toxicity	ErC50	275 mg/l	72 h	Chlorella vulgaris	ECHA Dossier		
	Acute crustacea toxicity	EC50 mg/l	5012	48 h	Ceriodaphnia dubia (water flea)	ECHA Dossier		
	Crustacea toxicity	NOEC	9,6 mg/l	9 d	Daphnia magna	ECHA Dossier		
78-93-3	butanone; ethyl methyl ketone							
	Acute fish toxicity	LC50 mg/l	2993	96 h	Pimephales promelas	ECHA Dossier	OECD 203	
	Acute algae toxicity	ErC50 mg/l	1972	72 h	Pseudokirchnerella subcapitata	ECHA Dossier	OECD 201	
	Acute crustacea toxicity	EC50	308 mg/l	48 h	Daphnia magna	ECHA Dossier	OECD 202	

12.2. Persistence and degradability

The product has not been tested.

CAS No	AS No Chemical name				
	Method	Value		d	Source
	Evaluation				
67-64-1	Acetone				
	Formation of carbon dioxide	90,9 %		28	
64-17-5	Ethanol, Ethylalkohol				
	other guideline	84%		20	ECHA Dossier
	Biodegradable.				
78-93-3	butanone; ethyl methyl ketone				
		98%		28	ECHA Dossier
	Readily biodegradable (according to OECD criteria).				

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
67-64-1	Acetone	-0,24
64-17-5	Ethanol, Ethylalkohol	-0,31
78-93-3	butanone; ethyl methyl ketone	0,3

12.4. Mobility in soil

The product has not been tested.



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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.

Further information

160508

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

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. Observe in addition any national regulations! 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

WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; discarded organic chemicals consisting of or containing hazardous substances; hazardous waste

List of Wastes Code - used product

160508 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; discarded organic chemicals consisting of or containing hazardous substances; 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

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:	UN 1993
14.2. UN proper shipping name:	FLAMMABLE LIQUID, N.O.S.
	(Acetone/Ethanol)
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
Hazard label:	3
Classification code:	F1
Special Provisions:	274 601 640D
Limited quantity:	1 L
Excepted quantity:	E2
Transport category:	2



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Hazard No:	33		
Tunnel restriction code:	D/E		
Inland waterways transport (ADN)	101 (000		
14.1. UN number or ID number:			
14.2. UN proper shipping name:	FLAMMABLE LIQUID, N.O.S. (Acetone/Ethanol)		
14.3. Transport hazard class(es):	3		
14.4. Packing group:	II		
Hazard label:	3		
Classification code:	F1		
Special Provisions:	274 601 640D		
Limited quantity:	1L		
Excepted quantity:	E2		
Marine transport (IMDG) <u>14.1. UN number or ID number:</u>	UN 1993		
14.1. UN proper shipping name:	FLAMMABLE LIQUID, N.O.S.		
THE ON Proper shipping name.	(acetone/ethanol)		
<u>14.3. Transport hazard class(es):</u>	3		
14.4. Packing group:	II		
Hazard label:	3		
Marino pollutant:	NO		
Marine pollutant: Special Provisions:	NO 274		
Limited quantity:	1L		
Excepted quantity:	E2		
EmS:	F-E, S-E		
Air transport (ICAO-TI/IATA-DGR)			
<u>14.1. UN number or ID number:</u>	UN 1993		
14.2. UN proper shipping name:	FLAMMABLE LIQUID, N.O.S.		
14.3. Transport hazard class(es):	(acetone/ethanol) 3		
14.4. Packing group:			
Hazard label:	3		
Special Provisions:	A3		
Limited quantity Passenger:	1L		
Passenger LQ: Excepted quantity:	Y341 E2		
IATA-packing instructions - Passenger:	353		
IATA-max. quantity - Passenger:	5 L		
IATA-packing instructions - Cargo:	364		
IATA-max. quantity - Cargo:	60 L		
14.5. Environmental hazards			
ENVIRONMENTALLY HAZARDOUS:	No		



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14.6. Special precautions for user

Warning: Combustible liquid. Refer to section 6-8

14.7. Maritime transport in bulk according to IMO instruments

not relevant

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII): Entry 3 Entry 40 Entry 75

Linuy 5, Linuy 40, Linuy 75	
2010/75/EU (VOC):	99,802 % (788,438 g/l)
2004/42/EC (VOC):	99,802 % (788,438 g/l)
Information according to 2012/18/EU	P5c FLAMMABLE LIQUIDS
(SEVESO III):	

Additional information

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

National regulatory information

Employment restrictions:

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. 1 - slightly hazardous to water

Water hazard class (D):

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out: Acetone Ethanol, Ethylalkohol butanone; ethyl methyl ketone

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 2,7,10,11,12,15,16. Rev. 1.0; 08.06.2016, Initial release. Rev. 1,1; 29.06.2021; Revision 1-16. Rev. 2,0; 22.06.2023; general adjustment(s)

Abbreviations and acronyms

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 GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany) LC50: Lethal concentration, 50 percent LD50: Lethal dosis, 50 percent

according to UK REACH Regulation

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NOAFL: No observed effect Level DNEL: Derived No Effect Level PNEC: predicted no effect concentration 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 LC50: Lethal concentration, 50% LD50: Lethal dose, 50% 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 (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 SVHC: Substance of Very High Concern For abbreviations and acronyms, see table at http://abbrev.esdscom.eu

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
STOT SE 3; H336	Calculation method

Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
EUH066	Repeated exposure may cause skin dryness or cracking.

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 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



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necessarily valid for the new made-up material.

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