

SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 2015/830)

SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name : ISOTACKER Product code : 1651. RESIN

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

Recommended use : resin

Uses advised against : data not available

1.3. Details of the supplier of the safety data sheet

Registered company name : Suter Kunststoffe AG Address : Aefligenstrasse 3, CH-3312 Fraubrunnen Telephone : +41 (0)31 763 60 60 Fax : +41 (0)31 763 60 61 e-mail: info@swiss-composite.ch Site web : https://www.swiss-composite.ch

1.4. Emergency telephone number : .

Association/Organisation : ToxInfo Suisse, Tel. 145, International +41 (0)44 251 51 51

SECTION 2 : HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

In compliance with EC regulation No. 1272/2008 and its amendments.

Aerosol, Category 1 (Aerosol 1, H222 - H229).

Skin irritation, Category 2 (Skin Irrit. 2, H315).

Eye irritation, Category 2 (Eye Irrit. 2, H319).

Skin sensitisation, Category 1 (Skin Sens. 1, H317).

Specific target organ toxicity (single exposure), Category 3 (STOT SE 3, H336).

Hazardous to the aquatic environment - Chronic hazard, Category 3 (Aquatic Chronic 3, H412).

2.2. Label elements

Mixture for aerosol application.

In compliance with EC regulation No. 1272/2008 and its amendments.

Hazard pictograms :



Signal Word : DANGER Product identifiers : EC 201-159-0 EC 500-006-8 EC 216-823-5 Additional labeling : EUH205 Hazard statements : H222

BUTANONE FORMALDEHYDE, OLIGOMERIC REACTION PRODUCTS WITH 1-CHLORO-2,3-EPOXYPROPANE AND PHENOL 2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXYMETHYLENE)]BISOXIRANE

Contains epoxy constituents. May produce an allergic reaction.

Extremely flammable aerosol.

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H229	Pressurised container: May burst if heated.	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H319	Causes serious eye irritation.	
H336	May cause drowsiness or dizziness.	
H412	Harmful to aquatic life with long lasting effects.	
Precautionary statements	s - Prevention :	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ig smoking.	nition sources. No
P211	Do not spray on an open flame or other ignition source.	
P251	Do not pierce or burn, even after use.	
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.	
P280	Wear protective gloves/protective clothing/eye protection/face protec	tion.
Precautionary statements	s - Response :	
P302 + P352	IF ON SKIN: Wash with plenty of water/	
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove	e contact lenses, if
	present and easy to do. Continue rinsing.	
P362 + P364	Take off contaminated clothing and wash it before reuse.	
Precautionary statements	s - Storage :	
P410 + P412	Protect from sunlight. Do no expose to temperatures exceeding 50 °C	C/122 °F.
2.3. Other hazards		

3. Other hazards

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) >= 0.1% published by the European CHemicals Agency (ECHA) under article 57 of REACH: http://echa.europa.eu/fr/candidate-list-table The mixture fulfils neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Composition :

Identification	(EC) 1272/2008	Note	%
CAS: 78-93-3	GHS07, GHS02	[1]	50 <= x % < 100
EC: 201-159-0	Dgr		
REACH: 01-2119457290-43-XXXX	Flam. Liq. 2, H225		
	Eye Irrit. 2, H319		
BUTANONE	STOT SE 3, H336		
	EUH:066		
INDEX: 603-019-00-8	GHS02, GHS04	[1]	25 <= x % < 50
CAS: 115-10-6	Dgr	[7]	
EC: 204-065-8	Flam. Gas 1, H220		
DIMETHYL ETHER			
CAS: 9003-36-5	GHS07, GHS09		10 <= x % < 25
EC: 500-006-8	Wng		
REACH: 01-2119454392-40-XXXX	Skin Irrit. 2, H315		
	Skin Sens. 1, H317		
FORMALDEHYDE, OLIGOMERIC	Aquatic Chronic 2, H411		
REACTION PRODUCTS WITH			
1-CHLORO-2,3-EPOXYPROPANE AND PHENOL			
CAS: 1675-54-3	GHS07, GHS09		2.5 <= x % < 10
EC: 216-823-5	Wng		
REACH: 01-2119456619-26-XXXX	Skin Irrit. 2, H315		
	Skin Sens. 1, H317		
2,2'-[(1-METHYLETHYLIDENE)BIS(4	Eye Irrit. 2, H319		
,1-PHENYLENEOXYMETHYLENE)]BISOX	Aquatic Chronic 2, H411		
IRANE			

(Full text of H-phrases: see section 16)

Information on ingredients :

[7] Propellant gas

[1] Substance for which maximum workplace exposure limits are available.

SECTION 4 : FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

4.1. Description of first aid measures

In the event of exposure by inhalation :

In the event of massive inhalation, remove the person exposed to fresh air. Keep warm and at rest.

If the person is unconscious, place in recovery position. Notify a doctor in all events, to ascertain whether observation and supportive hospital care will be necessary.

Consult doctor in case of inhalation of spray mist and show the container or the label.

In the event of splashes or contact with eyes :

Wash thoroughly with fresh, clean water for 15 minutes holding the eyelids open.

If there is any redness, pain or visual impairment, consult an ophthalmologist.

Flush with large amounts of water. Remove contact lenses if the victim is. Continue to rinse. Seek medical attention if symptoms persist.

In the event of splashes or contact with skin :

Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner.

Watch out for any remaining product between skin and clothing, watches, shoes, etc.

In the event of an allergic reaction, seek medical attention.

If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.

In the event of swallowing :

Do not give the patient anything orally.

In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor. Seek medical attention immediately, showing the label.

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

No data available.

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

Information for the doctor :

In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person

may need to remain under medical supervision for 48 hours.

Contact a specialist for treatment poisoning if large quantities have been ingested or inhaled.

SECTION 5 : FIREFIGHTING MEASURES

Flammable.

Chemical powders, carbon dioxide and other extinguishing gas are suitable for small fires.

5.1. Extinguishing media

Keep packages near the fire cool, to prevent pressurised containers from bursting.

- Suitable methods of extinction
 - In the event of a fire, use :
 - sprayed water or water mist
 - water with AFFF (Aqueous Film Forming Foam) additive
 - halon
 - foam
 - multipurpose ABC powder
 - BC powder
 - carbon dioxide (CO2)

Prevent the effluent of fire-fighting measures from entering drains or waterways.

Unsuitable methods of extinction

In the event of a fire, do not use :

- water jet

5.2. Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

In the event of a fire, the following may be formed :

- carbon monoxide (CO)
- carbon dioxide (CO2)
- nitrogen oxide (NO)

5.3. Advice for firefighters

Fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

For non first aid worker

Avoid inhaling the vapors.

Avoid any contact with the skin and eyes.

If a large quantity has been spilt, evacuate all personnel and only allow intervention by trained operators equipped with safety apparatus.

Because of the organic solvents in the mixture, eliminate sources of ignition and ventilate the area.

For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

6.2. Environmental precautions

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

If the product contaminates waterways, rivers or drains, alert the relevant authorities in accordance with statutory procedures Use drums to dispose of collected waste in compliance with current regulations (see section 13).

6.3. Methods and material for containment and cleaning up

Clean preferably with a detergent, do not use solvents.

6.4. Reference to other sections

No data available.

SECTION 7 : HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the mixture is handled.

Individuals with a history of skin sensitisation should not, under any circumstance, handle this mixture.

7.1. Precautions for safe handling

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

Remove contaminated clothing and protective equipment before entering eating areas.

Local and ventilated workstations, observe the rules of personal hygiene to avoid contact with skin and eyes, wash hands before breaks and work stoppage.

Do not breathe vapors.

Spray with short strokes, not prolonged spraying.

Avoid contact with skin and eyes.

Fire prevention :

Handle in well-ventilated areas.

Prevent the formation of flammable or explosive concentrations in air and avoid vapor concentrations higher than the occupational exposure limits.

Do not spray on a naked flame or any incandescent material.

Do not pierce or burn, even after use.

Use the mixture in premises free of naked flames or other sources of ignition and ensure that electrical equipment is suitably protected.

Keep packages tightly closed and away from sources of heat, sparks and naked flames.

Do not use tools which may produce sparks. Do not smoke.

Prevent access by unauthorised personnel.

The vapors are heavier than air and will spread at floor level. Vapour forms with air explosive mixtures.

Recommended equipment and procedures :

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Do not breathe in aerosols.

Avoid inhaling vapors.

Avoid inhaling vapors. Carry out any industrial operation which may give rise to this in a sealed apparatus.

Provide vapor extraction at the emission source and also general ventilation of the premises.

Also provide breathing apparatus for certain short tasks of an exceptional nature and for emergency interventions.

In all cases, recover emissions at source.

Avoid skin and eye contact with this mixture.

Prohibited equipment and procedures :

No smoking, eating or drinking in areas where the mixture is used.

Never open the packages under pressure.

7.2. Conditions for safe storage, including any incompatibilities

No data available.

Storage

Keep the container tightly closed in a dry, well-ventilated place.

Keep away from all sources of ignition - do not smoke.

Keep well away from all sources of ignition, heat and direct sunlight.

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C.

Keep out of the reach of children.

The floor must be impermeable and form a dike to prevent the liquid from spilling.

Packaging

Always keep in packaging made of an identical material to the original.

7.3. Specific end use(s)

Use : adhesives

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits :

- European Union (2017/2398, 2017/164, 2009/161, 2006/15/CE, 2000/39/CE, 98/24/CE) :

VME-mg/m3 :	VME-ppm :	VLE-mg/m3 :	VLE-ppm :	Notes :		
600	200	900	300	-		
1920	1000	-	-	-		
V (American Confere	nce of Governmental	Industrial Hygienists,	Threshold Limit Val	ues, 2010) :		
TWA :	STEL :	Ceiling :	Definition :	Criteria :		
200 ppm	300 ppm		BEI			
- AGW (BAuA - TRGS	5 900, 29/01/2018) :					
VME :	VME :	Excess	Notes			
	200 ppm		1(I)			
	600 mg/m ³					
	1000 ppm		8(II)			
	1900 mg/m ³					
NRS - ED984 :2016) :		· · · · · · · · · · · · · · · · · · ·				
VME-ppm :	VME-mg/m3 :	VLE-ppm :	VLE-mg/m3 :	Notes :	TMP No :	
200	600	300	900	*	84	
1000	1920	-	-	-	-	
(Workplace exposure	e limits, EH40/2005, 2	011):				
TWA :	STEL :	Ceiling :	Definition :	Criteria :		
200 ppm	300 ppm		Sk, BMGV			
600 mg/m ³	899 mg/m ³					
400 ppm	500 ppm					
766 mg/m ³	958 mg/m ³					
	600 1920 V (American Confere TWA : 200 ppm - AGW (BAUA - TRGS VME : VME : VME : VME-ppm : 200 1000 (Workplace exposure TWA : 200 ppm 600 mg/m ³	600 200 1920 1000 V (American Conference of Governmental TWA : TWA : STEL : 200 ppm 300 ppm - AGW (BAuA - TRGS 900, 29/01/2018) : VME : VME : VME : VME : 200 ppm 600 mg/m³ 1000 ppm 1000 ppm : 200 ppm 600 mg/m3 1000 ppm 1900 mg/m3 1900 mg/m3 : 200 600 1000 1920 (Workplace exposure limits, EH40/2005, 24 TWA : STEL : 200 ppm 300 ppm 600 mg/m3 899 mg/m3	600 200 900 1920 1000 - V (American Conference of Governmental Industrial Hygienists, TWA : STEL : Ceiling : 200 ppm 300 ppm - AGW (BAuA - TRGS 900, 29/01/2018) : VME : Excess VME : VME : Excess 200 ppm 600 mg/m³ - 1000 ppm 1000 ppm 600 mg/m³ 1000 ppm : VME - ED984 :2016) : VLE-ppm : 200 600 300 1000 1920 - (Workplace exposure limits, EH40/2005, 2011) : : TWA : STEL : Ceiling : 200 ppm 300 ppm 600 mg/m³ 899 mg/m³	600 200 900 300 1920 1000 - - V (American Conference of Governmental Industrial Hygienists, Threshold Limit Val TWA : STEL : Ceiling : Definition : 200 ppm 300 ppm BEI BEI BEI - AGW (BAuA - TRGS 900, 29/01/2018) : VME : Excess Notes VME : VME : Excess Notes 200 ppm 1000 ppm 1(l) 600 mg/m³ 8(II) 1900 mg/m³ 1000 ppm 8(II) 900 1000 VME-ppm : VME-mg/m3 : VLE-ppm : VLE-mg/m3 : 200 1000 1920 - - - - VME-ppm : VME-mg/m3 : VLE-ppm : VLE-mg/m3 : - 200 600 300 900 - - 1000 1920 - - - - (Workplace exposure limits, EH40/2005, 2011) : TWA : STEL : Ceiling : Definition : 200 ppm	600 200 900 300 - 1920 1000 - - - V (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010) : - - TWA : STEL : Ceiling : Definition : Criteria : 200 ppm 300 ppm BEI - - - AGW (BAuA - TRGS 900, 29/01/2018) : VME : Excess Notes - VME : VME : Excess Notes - - 200 ppm 600 mg/m³ 1(1) - - - 000 ppm 1000 ppm 8(II) - - - VME -ppm : VME-mg/m3 : VLE-ppm : VLE-mg/m3 : Notes : 200 600 300 900 * - 1000 1920 - - - - (W-rkplace exposure limits, EH40/2005, 2011) : - - - - 1000 1920 - - - - - <td>600 200 900 300 - 1920 1000 - - - 1920 1000 - - - V (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010) : TWA : STEL : Ceiling : Definition : Criteria : 200 ppm 300 ppm BEI - - - - AGW (BAUA - TRGS 900, 29/01/2018) : VME : Excess Notes - VME : VME : Excess Notes - - 1000 ppm 1000 ppm 8(II) - - - VME-ppm : VME-ng/m3 : VLE-ppm : VLE-mg/m3 : Notes : TMP No : 200 600 300 900 * 84 1000 1920 - - - - (Work-place exposure limits, EH40/2005, 2011) : - - - - TWA : STEL : Ceiling : Definition : Criteria : -</td>	600 200 900 300 - 1920 1000 - - - 1920 1000 - - - V (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010) : TWA : STEL : Ceiling : Definition : Criteria : 200 ppm 300 ppm BEI - - - - AGW (BAUA - TRGS 900, 29/01/2018) : VME : Excess Notes - VME : VME : Excess Notes - - 1000 ppm 1000 ppm 8(II) - - - VME-ppm : VME-ng/m3 : VLE-ppm : VLE-mg/m3 : Notes : TMP No : 200 600 300 900 * 84 1000 1920 - - - - (Work-place exposure limits, EH40/2005, 2011) : - - - - TWA : STEL : Ceiling : Definition : Criteria : -

2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PH	ENYLENEOXYMETHYLENE)]BISOXIRANE (CAS: 1675-54-3)
Final use:	Workers.
Exposure method:	Dermal contact.
Potential health effects:	Short term systemic effects.
DNEL :	8.3 mg/kg de poids corporel/jour
Exposure method:	Dermal contact.
Potential health effects:	Long term systemic effects.
DNEL :	8.3 mg/kg de poids corporel/jour
Exposure method:	Inhalation.
Potential health effects:	Short term systemic effects.
DNEL :	12.3 mg de substance/m3
Exposure method:	Inhalation.
Potential health effects:	Long term systemic effects.
DNEL :	12.3 mg de substance/m3
Final use:	Man exposed via the environment.
Exposure method:	Ingestion.
Potential health effects:	Short term systemic effects.
DNEL :	0.75 mg/kg de poids corporel/jour

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Exposure method: Potential health effects: DNEL :

FORMALDENYDE, OLI Final use: Exposure method: Potential health effects: DNEL :

Exposure method: Potential health effects: DNEL :

Exposure method: Potential health effects: DNEL :

Final use:

Exposure method: Potential health effects: DNEL :

Exposure method: Potential health effects: DNEL :

Exposure method: Potential health effects: DNEL :

BUTANONE (CAS: 78-93-3) Final use: Exposure method: Potential health effects: DNEL :

Exposure method: Potential health effects: DNEL :

Final use: Exposure method: Potential health effects: DNEL :

Exposure method:

Ingestion. Long term systemic effects. 0.75 mg/kg de poids corporel/jour

Dermal contact. Short term systemic effects. 3.6 mg/kg de poids corporel/jour

Dermal contact. Long term systemic effects. 3.6 mg/kg de poids corporel/jour

Inhalation. Short term systemic effects. 0.75 mg de substance/m3

Inhalation. Long term systemic effects. 0.75 mg de substance/m3

FORMALDEHYDE, OLIGOMERIC REACTION PRODUCTS WITH 1-CHLORO-2,3-EPOXYPROPANE AND PHENOL (CAS: 9003-36-5)

Workers. Dermal contact. Short term local effects. 8.3 µg de substance/cm2

Dermal contact. Long term systemic effects. 104.15 mg/kg de poids corporel/jour

Inhalation. Long term systemic effects. 29.39 mg de substance/m3

Man exposed via the environment.

Ingestion. Long term systemic effects. 6.25 mg/kg de poids corporel/jour

Dermal contact. Long term systemic effects. 62.5 mg/kg de poids corporel/jour

Inhalation. Long term systemic effects. 8.7 mg de substance/m3

Workers.

Dermal contact. Long term systemic effects. 1161 mg/kg de poids corporel/jour

Inhalation. Long term systemic effects. 600 mg de substance/m3

Consumers. Ingestion. Long term systemic effects. 31 mg/kg de poids corporel/jour

Dermal contact.

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Potential health effects:	Long term systemic effects.	
DNEL :	412 mg/kg de poids corporel/jou	ır
Exposure method:	Inhalation.	
Potential health effects:	Long term systemic effects.	
DNEL :	106 mg de substance/m3	
edicted no effect concentration (PNEC):		
	IENYLENEOXYMETHYLENE)]BISOXIRANE (CAS: 1675-54-3)
Environmental compartment:	Soil.	
PNEC :	0.05 mg/kg	
Environmental compartment:	Fresh water.	
PNEC :	3 µg/l	
Environmental compartment:	Sea water.	
PNEC :	0.3 µg/l	
Environmental compartment:	Intermittent waste water.	
PNEC :	0.013 mg/l	
Environmental compartment:	Fresh water sediment.	
PNEC :	0.5 mg/kg	
Environmental compartment:	Marine sediment.	
PNEC :	0.5 mg/kg	
Environmental compartment:	Waste water treatment plant.	
PNEC :	10 mg/l	
		XYPROPANE AND PHENOL (CAS: 9003-36-5)
Environmental compartment:	Soil.	ATPROPANE AND PHENOL (CAS. 9003-30-3)
PNEC :	0.237 mg/kg	
Environmental compartment:	Fresh water.	
PNEC :	0.003 mg/l	
Environmental compartment:	Sea water.	
PNEC :	0.0003 mg/l	
Environmental compartment:	Intermittent waste water.	
PNEC :	0.0254 mg/l	
Environmental compartment:	Fresh water sediment.	
PNEC :	0.294 mg/kg	
Environmental compartment:	Marine sediment.	
PNEC :	0.0294 mg/kg	
Environmental compartment:	Waste water treatment plant.	
PNEC :	10 mg/l	
BUTANONE (CAS: 78-93-3)		
Environmental compartment:	Soil.	
PNEC :	22.5 mg/kg	
Environmental compartment:	Fresh water.	
PNEC :	55.8 mg/l	
Environmental compartment:	Sea water.	
PNEC :	55.8 mg/l	
Environmental comportment:	Intermittent waste water.	
Environmental compartment:	internittent waste water.	

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PNEC :	55.8 mg/l
Environmental compartment:	Fresh water sediment.
PNEC :	284.7 mg/kg
Environmental compartment:	Waste water treatment plant.
PNEC :	709 mg/l

8.2. Exposure controls

Use only with adequate ventilation or provided with ventilation at the source.

Personal protection measures, such as personal protective equipment

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE) :



Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

- Eye / face protection

Avoid contact with eyes.

Use eye protectors designed to protect against liquid splashes

Before handling, wear safety goggles with protective sides accordance with standard EN166.

In the event of high danger, protect the face with a face shield.

Prescription glasses are not considered as protection.

Individuals wearing contact lenses should wear prescription glasses during work where they may be exposed to irritant vapours.

Provide eyewash stations in facilities where the product is handled constantly.

Hand protection

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374.

Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

Type of gloves recommended :

- PVA (Polyvinyl alcohol)

- Butyl Rubber (Isobutylene-isoprene copolymer)

Recommended properties :

- Impervious gloves in accordance with standard EN374

- Body protection

Avoid skin contact.

Wear suitable protective clothing.

In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605 to prevent skin contact.

In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034 to prevent skin contact. Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

- Respiratory protection

Avoid breathing vapours.

If the ventilation is insufficient, wear appropriate breathing apparatus.

When workers are confronted with concentrations that are above occupational exposure limits, they must wear a suitable, approved, respiratory protection device.

Type of FFP mask :

Wear a disposable half-mask aerosol filter in accordance with standard EN149.

Category :

- FFP1

Anti-gas and vapour filter(s) (Combined filters) in accordance with standard EN14387 :

- A1 (Brown)

Particle filter according to standard EN143 :

- P1 (White)

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

General information :

Physical state :	Fluid liquid.	
	Spray.	
Important health, safety and environmental information		
pH :	Not relevant.	
Boiling point/boiling range :	Not relevant.	
Vapour pressure (50°C) :	Below 110 kPa (1.10 bar).	
Density :	<1	
Water solubility :	Insoluble.	
Melting point/melting range :	Not relevant.	
Self-ignition temperature :	Not relevant.	
Decomposition point/decomposition range :	Not relevant.	
Chemical combustion heat :	>= 30 kJ/g.	

9.2. Other information

No data available.

SECTION 10 : STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical stability

This mixture is stable under the recommended handling and storage conditions in section 7.

10.3. Possibility of hazardous reactions

Exposed to high temperatures, the mixture can release dangerous decomposition products such as carbon monoxide, carbon dioxide, smoke and nitrogen oxide.

10.4. Conditions to avoid

Any apparatus likely to produce a flame or to have a metallic surface at high temperature (burners, electric arcs, furnaces etc.) must not be allowed on the premises.

Avoid :

- heating

- heat

10.5. Incompatible materials

Keep away from :

- oxidising agents

10.6. Hazardous decomposition products The thermal decomposition may release/form :

- carbon monoxide (CO)

- carbon dioxide (CO2)

SECTION 11 : TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

May cause irreversible damage to the skin; namely inflammation of the skin or the formation of erythema and eschar or oedema following exposure up to four hours.

May have reversible effects on the eyes, such as eye irritation which is totally reversible by the end of observation at 21 days.

Narcotic effects may occur, such as drowsiness, narcosis, decreased alertness, loss of reflexes, lack of coordination or dizziness.

Effects may also occur in the form of violent headaches or nausea, judgement disorder, giddiness, irritability, fatigue or memory disturbance. May cause an allergic reaction by skin contact.

Based on the properties of the epoxy constituent(s) and considering toxicological data on similar preparations, this preparation may be a skin sensitiser and a respiratory tract sensitiser as well as an irritant.

Constituents with a low molecular weight irritate the eyes, mucous membranes and the skin

Repeated contact with the skin may cause irritation and hypersensitisation, possibly in combination with other epoxide compounds.

11.1.1. Substances

Acute toxicity :

2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYLENEOXYMETHYLENE)]BISOXIRANE (CAS: 1675-54-3) Oral route : LD50 = 11400 mg/kg

LD50 = 11400 mg/kg Species : Rat

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Dermal route :	LD50 = 2000 mg/kg Species : Rat	
FORMALDEHYDE, OLIGOMERIC REACTION P Oral route :	RODUCTS WITH 1-CHLORO-2,3-E LD50 > 2000 mg/kg Species : Rat	EPOXYPROPANE AND PHENOL (CAS: 9003-36-5)
Dermal route :	LD50 > 2000 mg/kg Species : Rabbit	
BUTANONE (CAS: 78-93-3)		
Oral route :	LD50 = 3460 mg/kg Species : Rat OCDE Ligne directrice 423 (classe de toxicité aiguë)	(Toxicité aiguë par voie orale - Méthode de la
Dermal route :	LD50 = 5000 mg/kg Species : Rabbit OCDE Ligne directrice 402 ((Toxicité aiguë par voie cutanée)
Inhalation route (Gas) :	LC50 = 7500 ppm	
Skin corrosion/skin irritation :		
2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-PHENYL		NE (CAS: 1675-54-3)
	Species : Rabbit OCDE Ligne directrice 404 ((Effet irritant/corrosif aigu sur la peau.)
FORMALDEHYDE, OLIGOMERIC REACTION P	Species : Rabbit	EPOXYPROPANE AND PHENOL (CAS: 9003-36-5) (Effet irritant/corrosif aigu sur la peau.)
FORMALDEHYDE, OLIGOMERIC REACTION P Conjunctival redness : Conjunctival oedema :	RODUCTS WITH 1-CHLORO-2,3-E Average score = 0 Species : Rabbit Average score = 0 Species : Rabbit	POXYPROPANE AND PHENOL (CAS: 9003-36-5)
	-	(Effet irritant/corrosif aigu sur les yeux)
Respiratory or skin sensitisation :		
BUTANONE (CAS: 78-93-3) Guinea Pig Maximisation Test (GMPT) :	Non-sensitiser. Species : Guinea pig	
Buehler Test :	Non-sensitiser. Species : Guinea pig OCDE Ligne directrice 406 ((Sensibilisation de la peau)
Germ cell mutagenicity :		
BUTANONE (CAS: 78-93-3) Mutagenesis (in vitro) :	Negative.	
Mutagenesis (in vitro).	Species : Bacteria	
Specific target organ systemic toxicity - repeated	d exposure :	
BUTANONE (CAS: 78-93-3) Inhalation route :	C = 5014 ppmV/6h/jour	
	Species : Rat Duration of exposure : 90 joi	urs
11.1.2. Mixture		
11.1.2. WIALUIC		

Contains epoxy compounds. May cause an allergic reaction.

Monograph(s) from the IARC (International Agency for Research on Cancer) :

CAS 1675-54-3 : IARC Group 3 : The agent is not classifiable as to its carcinogenicity to humans.

Harmful to aquatic life with long lasting effe	icts.
The product must not be allowed to run into	o drains or waterways.
2.1. Toxicity	
2.1.1. Substances	
2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-P	HENYLENEOXYMETHYLENE)]BISOXIRANE (CAS: 1675-54-3)
Fish toxicity :	LC50 = 1.3 mg/l
	Duration of exposure : 96 h
Crustacean toxicity :	EC50 = 2.1 mg/l
or dotablear toxicity .	Species : Daphnia sp.
	Duration of exposure : 48 h
	OCDE Ligne directrice 202 (Daphnia sp., essai d'immobilisation immédiate)
Algae toxicity :	ECr50 > 11 mg/l
	Duration of exposure : 72 h
FORMALDEHYDE, OLIGOMERIC REAC Fish toxicity :	TION PRODUCTS WITH 1-CHLORO-2,3-EPOXYPROPANE AND PHENOL (CAS: 9003-36-5) LC50 = 2.54 mg/l
THOM CONDICY .	Duration of exposure : 96 h
Onveteren text-thus	
Crustacean toxicity :	EC50 = 2.55 mg/l
	Species : Daphnia sp.
	Duration of exposure : 48 h OCDE Ligne directrice 202 (Daphnia sp., essai d'immobilisation immédiate)
Algae toxicity :	ECr50 > 1000 mg/l
	Species : Selenastrum capricornutum
	Duration of exposure : 72 h
	OCDE Ligne directrice 201 (Algues, Essai d'inhibition de la croissance)
BUTANONE (CAS: 78-93-3)	
Fish toxicity :	LC50 = 2993 mg/l
	Species : Pimephales promelas
	Duration of exposure : 96 h
Crustacean toxicity :	EC50 = 308 mg/l
,	Species : Daphnia magna
	Duration of exposure : 48 h
.1.2. Mixtures	
No aquatic toxicity data available for the mi	ixture
.2. Persistence and degradability	
.2.1. Substances	
2,2'-[(1-METHYLETHYLIDENE)BIS(4,1-P	HENYLENEOXYMETHYLENE)]BISOXIRANE (CAS: 1675-54-3)
Biodegradability :	no degradability data is available, the substance is considered as not
	degrading quickly.
FORMALDEHYDE, OLIGOMERIC REAC	TION PRODUCTS WITH 1-CHLORO-2,3-EPOXYPROPANE AND PHENOL (CAS: 9003-36-5)
Biodegradability :	Non-rapidly degradable.
BUTANONE (CAS: 78-93-3)	
Biodegradability :	Rapidly degradable.
.3. Bioaccumulative potential	
	HENYLENEOXYMETHYLENE)]BISOXIRANE (CAS: 1675-54-3)

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Octanol/water partition coefficient :	log Koe = 4	
FORMALDEHYDE, OLIGOMERIC REACT Octanol/water partition coefficient :	ION PRODUCTS WITH 1-CHLORO-2,3-E log Koe = 3.3	POXYPROPANE AND PHENOL (CAS: 9003-36-5)
Bioaccumulation :	BCF = 150	
BUTANONE (CAS: 78-93-3)		
Octanol/water partition coefficient :	log Koe = 0.3	
2.4. Mobility in soil		
No data available.		
2.5. Results of PBT and vPvB assessment		
No data available.		
2.6. Other adverse effects		
No data available.		
German regulations concerning the classif	ication of hazards for water (WGK, AwS	SV vom 18/04/2017, KBws) :
WGK 2 : Hazardous for water.		

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

13.1. Waste treatment methods

Do not pour into drains or waterways.

Waste :

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging :

Empty container completely. Keep label(s) on container. Give to a certified disposal contractor.

SECTION 14 : TRANSPORT INFORMATION

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2017 - IMDG 2016 - ICAO/IATA 2017).

14.1. UN number

1950

14.2. UN proper shipping name

UN1950=AEROSOLS, flammable

14.3. Transport hazard class(es)

- Classification :



2.1

14.4. Packing group

-

14.5. Environmental hazards

-

14.6. Special precautions for user

ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel
	2	5F	-	2.1	-	1 L	190 327	E0	2	D
							344 625			
IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ			
	2	See SP63	-	See SP277	F-D,S-U	63 190	E0			

						277 327 344 381 959			
IATA	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ
	2.1	-	-	Forbidden	Forbidden	203	150 kg	A1 A145 A167 A802	E0
	2.1	-	-	Forbidden	Forbidden	-	-	A1 A145 A167 A802	E0

For limited quantities, see part 2.7 of the OACI/IATA and chapter 3.4 of the ADR and IMDG.

For excepted quantities, see part 2.6 of the OACI/IATA and chapter 3.5 of the ADR and IMDG.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No data available.

SECTION 15 : REGULATORY INFORMATION

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

- Classification and labelling information included in section 2:
 - The following regulations have been used:
 - Directive 75/324/CEE modified by directive 2013/10/UE
 - EU Regulation No. 1272/2008 amended by EU Regulation No. 2018/669 (ATP 11)
- Container information:

No data available.

- Particular provisions :

No data available.

- German regulations concerning the classification of hazards for water (WGK, AwSV vom 18/04/2017, KBws) : WGK 2 : Hazardous for water.
- Standardised American system for the identification of hazards presented by the product in view of emergency procedures (NFPA 704) : NFPA 704, Labelling: Health=2 Inflammability=3 Instability/Reactivity=1 Specific Risk=none



15.2. Chemical safety assessment

No data available.

SECTION 16 : OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions. It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations. The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

Wording of the phrases mentioned in section 3 :

······································						
H220	Extremely flammable gas.					
H225	Highly flammable liquid and vapour.					
H315	Causes skin irritation.					
H317	May cause an allergic skin reaction.					
H319	Causes serious eye irritation.					
H336	May cause drowsiness or dizziness.					
H411	Toxic to aquatic life with long lasting effects.					
EUH066	Repeated exposure may cause skin dryness or cracking.					

Abbreviations :

DNEL : Derived No-Effect Level

PNEC : Predicted No-Effect Concentration

ADR : European agreement concerning the international carriage of dangerous goods by Road.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

ICAO : International Civil Aviation Organisation

RID : Regulations concerning the International carriage of Dangerous goods by rail.

WGK : Wassergefahrdungsklasse (Water Hazard Class).

GHS02 : Flame

GHS07 : Exclamation mark

PBT: Persistent, bioaccumulable and toxic.

vPvB : Very persistent, very bioaccumulable.

SVHC : Substances of very high concern.