

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



SPECIAL CARE ADHESIVE S2002

Version
1.0

Revision Date:
22.12.2022

Date of last issue: -
Date of first issue: 22.12.2022

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

1.1 Product identifier

Trade name : SPECIAL CARE ADHESIVE S2002

Product code : 525500020000000000

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

Use of the Sub-
stance/Mixture : Adhesive for assembly of ALTUGLAS acrylic sheets

1.3 Details of the supplier of the safety data sheet

Company : ALTUGLAS S.R.L
VIA PREGNANA 63
20017 RHO

Telephone : +390236103900

E-mail address of person
responsible for the SDS : SDSQuestion@trinseo.com

1.4 Emergency telephone

GLOBAL : +(1)-703-527-3887 LOCAL : +44 20 3885 0382 Centri antiveneni: Milano -
Ospedale Cà Granda tel. +39 02 66 10 10 29 Pavia - C.N.I.T. tel. +39 03 822 4444 Numero
di telefono di emergenza europeo: 112

For Poison Centre information in other EU countries, please refer to Section 16.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 2	H225: Highly flammable liquid and vapor.
Skin irritation, Category 2	H315: Causes skin irritation.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Carcinogenicity, Category 2	H351: Suspected of causing cancer.
Specific target organ toxicity - single exposure, Category 3, Central nervous system	H336: May cause drowsiness or dizziness.

2.2 Label elements

Labeling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal Word : Danger

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Hazard Statements : H225 Highly flammable liquid and vapor.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H351 Suspected of causing cancer.

Precautionary Statements : **Prevention:**
P201 Obtain special instructions before use.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P261 Avoid breathing mist or vapors.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

Response:

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Hazardous ingredients which must be listed on the label:

acetone
dichloromethane
1-methoxy-2-propanol

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Repeated exposure may cause skin dryness or cracking.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
1,3-dioxolane	646-06-0 211-463-5 605-017-00-2	Flam. Liq. 2; H225 Eye Irrit. 2; H319	>= 30 - < 50
acetone	67-64-1	Flam. Liq. 2; H225	>= 10 - < 20

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	200-662-2 606-001-00-8	Eye Irrit. 2; H319 STOT SE 3; H336 (Central nervous system) EUH066	
dichloromethane	75-09-2 200-838-9 602-004-00-3	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Carc. 2; H351 STOT SE 3; H336 (Central nervous system)	$\geq 10 - < 20$
nitroethane	79-24-3 201-188-9 609-035-00-1	Flam. Liq. 3; H226 Acute Tox. 4; H302 Acute Tox. 3; H331 Aquatic Chronic 3; H412	$\geq 2,5 - < 10$
formic acid	64-18-6 200-579-1	Flam. Liq. 3; H226 Acute Tox. 4; H302 Acute Tox. 3; H331 Skin Corr. 1A; H314 Eye Dam. 1; H318 <hr/> Acute toxicity estimate Acute oral toxicity: 730 mg/kg Acute inhalation toxicity (vapor): 7,4 mg/l	$\geq 1 - < 3$
1-methoxy-2-propanol	107-98-2 203-539-1 603-064-00-3	Flam. Liq. 3; H226 STOT SE 3; H336 (Central nervous system)	$\geq 1 - < 10$

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures

- General advice : Move out of dangerous area.
Show this material safety data sheet to the doctor in attendance.
Do not leave the victim unattended.
Take off immediately all contaminated clothing.
Wash contaminated clothing before re-use.
- Protection of first-aiders : First Aid responders should pay attention to self-protection and use the recommended protective clothing
In case of insufficient ventilation, wear suitable respiratory equipment.
- If inhaled : Consult a physician after significant exposure.

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If unconscious, place in recovery position and seek medical advice.

Inhalation of vapours/mists :
Move to fresh air.
Oxygen or artificial respiration if needed.
In case of persistent problems :
Hospitalise.

In case of skin contact : If skin irritation persists, call a physician.
If on skin, rinse well with water.
If on clothes, remove clothes.

In case of eye contact : Immediately flush eye(s) with plenty of water.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
Take victim immediately to hospital.

Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

Do not administer catecholamines (because of the cardiac effect caused by the product).

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Alcohol-resistant foam
Carbon dioxide (CO₂)
Dry chemical

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire fighting : Do not allow run-off from fire fighting to enter drains or water courses.

Highly flammable
Vapors may form explosive mixture with air.

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Possible re-ignition of vapours from a distance

Hazardous combustion products : Thermal decomposition giving toxic and corrosive products :
Carbon oxides
Nitrogen oxides (NO_x)
Formaldehyde
Peroxides
Chlorine
Hydrogen chloride gas
Phosgene

5.3 Advice for firefighters

Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
For safety reasons in case of fire, cans should be stored separately in closed containments.
Use a water spray to cool fully closed containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.
Ensure adequate ventilation.
Remove all sources of ignition.
Evacuate personnel to safe areas.
Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.
Avoid contact with skin and eyes and inhalation of vapours.

6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

Dam up with sand or inert earth (do not use combustible materials).

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

Non-sparking tools should be used.

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6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Advice on safe handling : Avoid formation of aerosol.
Do not breathe vapors/dust.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Take precautionary measures against static discharges.
Provide sufficient air exchange and/or exhaust in work rooms.
Open drum carefully as content may be under pressure.
Dispose of rinse water in accordance with local and national regulations.
Provide showers, eye-baths.
Provide water supplies near the point of use.
Provide self-contained breathing apparatus nearby.
Provide fire-blanket nearby.
Strictly limit the quantities of product in the work area to those which are absolutely necessary for the work in hand.
- Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material.
Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition.
- Hygiene measures : When using do not eat or drink. When using do not smoke.
Wash hands before breaks and at the end of workday.
Remove contaminated clothing and protective equipment before entering eating areas.

7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.
- Provide facilities to capture any vapours (heavy vapours, low level extraction). Keep away from heat, sparks and flames.
Provide electrical earthing of equipment and electrical equipment usable in explosive atmospheres. Provide a catch-tank in a bunded area.
- Further information on storage stability : No decomposition if stored and applied as directed.
- Packaging material : Suitable material: Metal drums with internal polyethylene coating, Protected glass (for small quantities)

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7.3 Specific end use(s)

Specific use(s) : none

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
1,3-dioxolane	646-06-0	TWA	20 ppm	ACGIH
acetone	67-64-1	TWA	500 ppm 1.210 mg/m ³	2000/39/EC
	Further information: Indicative			
		TWA	500 ppm 1.210 mg/m ³	IT OEL
		TWA	250 ppm	ACGIH
		STEL	500 ppm	ACGIH
dichloromethane	75-09-2	TWA	100 ppm 353 mg/m ³	2017/164/EU
	Further information: Identifies the possibility of significant uptake through the skin, Indicative			
		STEL	200 ppm 706 mg/m ³	2017/164/EU
	Further information: Identifies the possibility of significant uptake through the skin, Indicative			
		TWA	50 ppm 175 mg/m ³	IT OEL
	Further information: The notation 'Skin' attributes to the exposure limit values and indicates the possibility of absorption through the skin.			
		STEL	100 ppm 353 mg/m ³	IT OEL
	Further information: The notation 'Skin' attributes to the exposure limit values and indicates the possibility of absorption through the skin.			
		TWA	50 ppm	ACGIH
nitroethane	79-24-3	TWA	20 ppm 62 mg/m ³	2017/164/EU
	Further information: Identifies the possibility of significant uptake through the skin, Indicative			
		STEL	100 ppm 312 mg/m ³	2017/164/EU
	Further information: Identifies the possibility of significant uptake through the skin, Indicative			
		TWA	20 ppm 62 mg/m ³	IT OEL
	Further information: The notation 'Skin' attributes to the exposure limit values and indicates the possibility of absorption through the skin.			
		STEL	100 ppm 312 mg/m ³	IT OEL
	Further information: The notation 'Skin' attributes to the exposure limit values and indicates the possibility of absorption through the skin.			

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		TWA	100 ppm	ACGIH
formic acid	64-18-6	TWA	5 ppm 9 mg/m ³	2006/15/EC
	Further information: Indicative			
		TWA	5 ppm 9 mg/m ³	IT OEL
		TWA	5 ppm	ACGIH
		STEL	10 ppm	ACGIH
1-methoxy-2-propanol	107-98-2	STEL	150 ppm 568 mg/m ³	2000/39/EC
	Further information: Identifies the possibility of significant uptake through the skin, Indicative			
		TWA	100 ppm 375 mg/m ³	2000/39/EC
	Further information: Identifies the possibility of significant uptake through the skin, Indicative			
		TWA	100 ppm 375 mg/m ³	IT OEL
	Further information: The notation 'Skin' attributes to the exposure limit values and indicates the possibility of absorption through the skin.			
		STEL	150 ppm 568 mg/m ³	IT OEL
	Further information: The notation 'Skin' attributes to the exposure limit values and indicates the possibility of absorption through the skin.			
		TWA	50 ppm	ACGIH
		STEL	100 ppm	ACGIH

Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Basis
acetone	67-64-1	Acetone: 25 mg/l (Urine)	End of shift (As soon as possible after exposure ceases)	ACGIH BEI
dichloromethane	75-09-2	Dichloromethane: 0,3 mg/l (Urine)	End of shift (As soon as possible after exposure ceases)	ACGIH BEI

8.2 Exposure controls

Personal protective equipment

Eye protection : Eye wash bottle with pure water
Tightly fitting safety goggles
Wear face-shield and protective suit for abnormal processing problems.

Hand protection

Material : Gloves (Nitrile rubber, Neoprene)
Protective index : According to permeation index EN 374: 1 (time elapsed > 10 mins)

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Skin and body protection : Impervious clothing

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Respiratory protection	:	Choose body protection according to the amount and concentration of the dangerous substance at the work place. No personal respiratory protective equipment normally required.
Protective measures	:	Ensure sufficient air exchange and/or exhaust in work areas

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	viscous liquid
Color	:	colorless
Odor	:	ether-like, acetone-like
Odor Threshold	:	No data available
Melting point/range	:	No data available
Freezing point	:	No data available
Boiling point/boiling range	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Flash point	:	-8 °C Method: closed cup Method: ISO 3679
Decomposition temperature	:	No data available
pH	:	No data available
Viscosity	:	
Viscosity, dynamic	:	250 mPa.s
Solubility(ies)	:	
Water solubility	:	partly soluble
Solubility in other solvents	:	Soluble in most organic solvents
Partition coefficient: n-octanol/water	:	No data available
Vapor pressure	:	No data available
Density	:	1.050 kg/m ³
Relative vapor density	:	No data available

9.2 Other information

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Explosives : Vapors may form explosive mixtures with air.
Oxidizing properties : Not relevant (due to its chemical structure)
Flammability (liquids) : Highly flammable liquid and vapor.
Self-ignition : No data available
Evaporation rate : No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if stored and applied as directed.
Vapors may form explosive mixture with air.

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.
Protect from light.

10.5 Incompatible materials

Materials to avoid : Acids
Bases
Oxidizing agents

10.6 Hazardous decomposition products

Thermal decomposition giving toxic and corrosive products :
Carbon oxides
Nitrogen oxides (NO_x)
Formaldehyde
Peroxides
Chlorine
Hydrogen chloride gas
Phosgene

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Product:

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Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l
Exposure time: 4 h
Test atmosphere: vapor
Method: Calculation method

Components:

nitroethane:

Acute oral toxicity : Assessment: The component/mixture is moderately toxic after single ingestion.

Acute inhalation toxicity : Assessment: The component/mixture is toxic after short term inhalation.

formic acid:

Acute oral toxicity : Symptoms: Ingestion causes burns of the upper digestive and respiratory tracts.
Remarks: • In man :

LD50 (Rat): 730 mg/kg
Method: OECD Test Guideline 401
Assessment: Harmful if swallowed.
Remarks: • In animals :

Acute toxicity estimate: 730 mg/kg
Method: Calculation method

Acute inhalation toxicity : Symptoms: Risk of pulmonary oedema, At high vapour/fog concentrations :, Risk of persistent pulmonary lesions
Remarks: • In man :

LC50 (Rat): 7,4 mg/l
Exposure time: 4 h
Test atmosphere: vapor
Method: OECD Test Guideline 403
Assessment: Toxic if inhaled.
Remarks: • In animals :

Acute toxicity estimate: 7,4 mg/l
Test atmosphere: vapor
Method: Calculation method

Acute dermal toxicity : Symptoms: No data available.

Skin corrosion/irritation

Product:

Remarks : May cause skin irritation in susceptible persons.

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Components:

dichloromethane:

Result : Irritating to skin.

formic acid:

Result : Causes severe burns.

Serious eye damage/eye irritation

Product:

Remarks : May cause irreversible eye damage.

Components:

1,3-dioxolane:

Result : Eye irritation

dichloromethane:

Result : Irritating to eyes.

Germ cell mutagenicity

Components:

formic acid:

Genotoxicity in vitro : Result: Inactive in genotoxic in vitro tests

Test Type: In vitro gene mutation study in bacteria
Method: OECD Test Guideline 471

Test Type: Chromosome aberration test in vitro
Method: OECD Test Guideline 473

Test Type: In vitro gene mutations test on mammalian cells
Method: OECD Test Guideline 476

Carcinogenicity

Components:

dichloromethane:

Carcinogenicity - Assessment : Limited evidence of carcinogenicity in animal studies

formic acid:

Species : rat and mouse
Application Route : By diet
Method : OECD Test Guideline 453
Result : Absence of carcinogenic effects

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Test substance : (Results obtained on a similar product).
Remarks : • In animals :

Reproductive toxicity

Components:

formic acid:

STOT-single exposure

Components:

dichloromethane:

Assessment : May cause drowsiness or dizziness.

1-methoxy-2-propanol:

Assessment : May cause drowsiness or dizziness.

Repeated dose toxicity

Components:

formic acid:

Species : Rat
Application Route : By inhalation
Method : OECD Test Guideline 413
Remarks : • In animals :

NOAEL : 0,122 mg/l
Symptoms : Atrophy of nasal epithelium

NOAEL : > 0,244 mg/l

Aspiration toxicity

Components:

nitroethane:

May be harmful if swallowed and enters airways.

formic acid:

Not applicable

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation

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(EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Further information

Product:

Remarks : Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
Concentrations substantially above the TLV value may cause narcotic effects.
Solvents may degrease the skin.

SECTION 12: Ecological information

12.1 Toxicity

Components:

nitroethane:

Ecotoxicology Assessment

Acute aquatic toxicity : Harmful to aquatic life.

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

formic acid:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 130 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to microorganisms : NOEC (Activated sludge): 72 mg/l
End point: Respiration inhibition
Exposure time: 13 d
Method: OECD Test Guideline 209

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: > 100 mg/l
End point: reproduction
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 211

12.2 Persistence and degradability

Components:

formic acid:

Biodegradability : Result: Readily biodegradable
Biodegradation: 100 %
Exposure time: 14 d
Method: OECD Test Guideline 301 C

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12.3 Bioaccumulative potential

Components:

formic acid:

Partition coefficient: n-octanol/water : log Pow: -2,1 (23 °C)
pH: 7
Method: OECD Test Guideline 107

12.4 Mobility in soil

Components:

formic acid:

Distribution among environmental compartments : log Koc: 1,25 - 1,49
Method: OECD Test Guideline 121

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Components:

formic acid:

Assessment : According to REACH regulation, annex XIII, the substance does not meet PBT and vPvB criteria.

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Components:

1-methoxy-2-propanol:

Assessment : Based on the available information, it is not possible to conclude on the endocrine disruptor potential.
Remarks : No data available

12.7 Other adverse effects

Product:

Additional ecological information : No data available

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mation

Components:

formic acid:

Additional ecological information : All available and relevant data on this product and/or the components quoted in section 3 and/or the analogue substances/metabolites have been taken into account for the hazard assessment.

Global warming potential

The Fifth Assessment Report of the United Nations Intergovernmental Panel on Climate Change (IPCC)

Components:

dichloromethane:

20-year global warming potential: 40,2
100-year global warming potential: 11,2
500-year global warming potential: 3,18
Atmospheric lifetime: 0,493 yr
Radiative efficiency: 0,029 Wm²ppb
Further information: Chlorocarbons and Hydrochlorocarbons

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Do not dispose of waste into sewer.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.
Do not burn, or use a cutting torch on, the empty drum.

SECTION 14: Transport information

14.1 UN number or ID number

ADR : UN 1133
RID : UN 1133
IMDG : UN 1133
IATA : UN 1133

14.2 UN proper shipping name

ADR : ADHESIVES
(, Nitroethane)

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RID : ADHESIVES
(, Nitroethane)

IMDG : ADHESIVES
(, Nitroethane)

IATA : Adhesives
(, Nitroethane)

14.3 Transport hazard class(es)

ADR : 3

RID : 3

IMDG : 3

IATA : 3

14.4 Packing group

ADR
Packing group : II
Classification Code : F1
Hazard Identification Number : 33
Labels : 3
Tunnel restriction code : (D/E)
Remarks : Special Provision 640C

RID
Packing group : II
Classification Code : F1
Hazard Identification Number : 33
Labels : 3
Remarks : Special Provision 640C

IMDG
Packing group : II
Labels : 3
EmS Code : F-E, S-D

IATA (Cargo)
Packing instruction (cargo aircraft) : 364
Packing instruction (LQ) : Y341
Packing group : II
Labels : Flammable Liquids

IATA (Passenger)
Packing instruction (passenger aircraft) : 353
Packing instruction (LQ) : Y341
Packing group : II
Labels : Flammable Liquids

14.5 Environmental hazards

ADR
Environmentally hazardous : no

RID

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according to Regulation (EC) No. 1907/2006



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Environmentally hazardous : no

IMDG

Marine pollutant : no

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered: dichloromethane (Number on list 59)

REACH - Candidate List of Substances of Very High Concern for Authorization (Article 59). : This product does not contain substances of very high concern (Regulation (EC) No. 1907/2006 (REACH), Article 57).

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not listed

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not listed

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not listed

REACH - List of substances subject to authorisation (Annex XIV) : Not listed

Regulation (EU) 2019/1148 on the marketing and use of explosives precursors

This product is regulated by Regulation (EU) 2019/1148: all suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point. Please see https://ec.europa.eu/home-affairs/sites/homeaffairs/files/what-we-do/policies/crisis-and-terrorism/explosives/explosives-precursors/docs/list_of_competent_authorities_and_national_contact_points_en.pdf acetone (ANNEX II)

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. P5c FLAMMABLE LIQUIDS

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial

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emissions (integrated pollution prevention and control)
Not applicable

Other regulations:

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

Legislative Decree April 9, 2008, 81 (Implementation of Article 1 of the Law of 3 August 2007, n. 123, concerning the protection of health and safety in the workplace.) and subsequent amendments

Legislative Decree April 3, 2006, n.152, (Environmental standards) and subsequent amendments

Legislative Decree February 6, 2009, 21 (Regulations for the execution of the provisions laid down in Regulation (EC) no. 648/2004 on detergents)

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this mixture.

SECTION 16: Other information

Country	Poison Information Centre
Austria	+43 1 406 43 43
Belgium	070 245 245
Bulgaria	+359 2 9154 233
Croatia	+3851 2348 342
Cyprus	1401
Czech Republic	+420 224 919 293
Denmark	+45 8212 1212
Estonia	nationally 16662, calling from abroad (+372) 7943 794
Finland	0800 147 111
France	+ 33 (0)1 45 42 59 59
Germany	
Greece	(0030) 2107793777
Hungary	+36-80-201-199
Iceland	543 2222
Ireland	01 809 2166
Italy	+39 02 66 10 10 29
Latvia	
Liechtenstein	
Lithuania	+370 (85) 2362052
Luxembourg	(+352) 8002 5500
Malta	
the Netherlands	NVIC: +31 (0)88 755 8000
Norway	22 59 13 00
Poland	
Portugal	+351 800 250 250
Romania	+40213183606
Slovakia	+421 2 5477 4166
Slovenia	112
Spain	34 91 562 04 20
Sweden	112

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Full text of H-Statements

H225	: Highly flammable liquid and vapor.
H226	: Flammable liquid and vapor.
H302	: Harmful if swallowed.
H314	: Causes severe skin burns and eye damage.
H315	: Causes skin irritation.
H318	: Causes serious eye damage.
H319	: Causes serious eye irritation.
H331	: Toxic if inhaled.
H336	: May cause drowsiness or dizziness.
H351	: Suspected of causing cancer.
H412	: Harmful to aquatic life with long lasting effects.
EUH066	: Repeated exposure may cause skin dryness or cracking.

Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Carc.	: Carcinogenicity
Eye Dam.	: Serious eye damage
Eye Irrit.	: Eye irritation
Flam. Liq.	: Flammable liquids
Skin Corr.	: Skin corrosion
Skin Irrit.	: Skin irritation
STOT SE	: Specific target organ toxicity - single exposure
2000/39/EC	: Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values
2006/15/EC	: Europe. Indicative occupational exposure limit values
2017/164/EU	: Europe. Commission Directive 2017/164/EU establishing a fourth list of indicative occupational exposure limit values
ACGIH	: USA. ACGIH Threshold Limit Values (TLV)
ACGIH BEI	: ACGIH - Biological Exposure Indices (BEI)
IT OEL	: Italy. List of indicative limit values for professional exposure to chemical agents.
2000/39/EC / TWA	: Limit Value - eight hours
2000/39/EC / STEL	: Short term exposure limit
2006/15/EC / TWA	: Limit Value - eight hours
2017/164/EU / STEL	: Short term exposure limit
2017/164/EU / TWA	: Limit Value - eight hours
ACGIH / TWA	: 8-hour, time-weighted average
ACGIH / STEL	: Short-term exposure limit
IT OEL / TWA	: 8 hour exposure limit
IT OEL / STEL	: Short term exposure limit

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air

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Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the mixture:

Flam. Liq. 2	H225
Skin Irrit. 2	H315
Eye Irrit. 2	H319
Carc. 2	H351
STOT SE 3	H336

Classification procedure:

Based on product data or assessment
Calculation method
Calculation method
Calculation method
Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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