

Safety Data Sheet

According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH

Section 1 Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name	PU Foam Hydro B2 M
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1.2 Relevant identified uses of the substance or mixture and uses advised against

Intended use
Single-component polyurethane foam in aerosol generators.

1.3 Details of the supplier of the safety data sheet

Company name	TORGGLER S.R.L.
Full address	Via Prati Nuovi 9
Town	Marlengo
Postal code	39020
Province	BZ
Country	Italy
Phone number	+39 0473 282400
Fax	+39 0473 282501
e-mail address of the competent person responsible for the Safety Data Sheet	reach@torggler.com

1.4 Emergency telephone number

For urgent inquiries refer to	+39 348 662 70 93 (08.00 - 17.30)
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Section 2 Hazards identification

2.1 Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification

Aerosol, category 1	H222 H229	Extremely flammable aerosol. Pressurised container: may burst if heated.
Skin irritation, category 2	H315	Causes skin irritation.
Skin sensitization, category 1B	H317	May cause an allergic skin reaction.
Eye irritation, category 2	H319	Causes serious eye irritation.
Acute toxicity, category 4	H332	Harmful if inhaled.
Respiratory sensitization, category 1B	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Specific target organ toxicity - single exposure, category 3	H335	May cause respiratory irritation.
Carcinogenicity, category 2	H351	Suspected of causing cancer.
Reproductive toxicity, effects on or via lactation	H362	May cause harm to breast-fed children.
Specific target organ toxicity - repeated exposure, category 2	H373	May cause damage to organs through prolonged or repeated exposure.
Hazardous to the aquatic environment, acute toxicity, category 1	H400	Very toxic to aquatic life.
Hazardous to the aquatic environment, chronic toxicity, category 1	H410	Very toxic to aquatic life with long lasting effects.

Section 2

2.2 Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms



Signal word

Danger

Hazard statements

H222	Extremely flammable aerosol.
H229	Pressurised container: may burst if heated.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H362	May cause harm to breast-fed children.
H373	May cause damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statements

P101	If medical advice is needed, have product container or label at hand.
P501	Dispose of contents and container in accordance with local and national regulations.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P251	Do not pierce or burn, even after use.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50°C / 122°F.
P102	Keep out of reach of children.
P211	Do not spray on an open flame or other ignition source.

Supplementary hazard statements

EUH204	Contains isocyanates. May produce an allergic reaction.
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Contains

Diphenylmethanediisocyanate, isomers and homologues

CHLORINATED PARAFFINS, C14-17

As from 24 August 2023 adequate training is required before industrial or professional use.

Additional information in accordance with EC Regulation No 552/2009 of 22 June 2009: The use of this product may cause allergic reactions in individuals already sensitised to diisocyanates. People suffering from asthma, eczema or skin problems should avoid contact, including skin contact, with this product. This product should not be used in poorly ventilated areas unless a protective mask with a suitable gas filter (e.g. type A1 in accordance with standard EN 14387) is worn.

The product is classified as hazardous to the aquatic environment in both categories: acute and chronic; only the H410 statement may be included on the label.

Section 2

2.3 Other hazards

PBT substances contained

CHLORINATED PARAFFINS, C14-17

vPvB substances contained

CHLORINATED PARAFFINS, C14-17

The product does not contain substances with endocrine disrupting properties in concentration $\geq 0.1\%$.

Section 3 Composition/information on ingredients

Polyurethane based prepolymer and propellant gases in aerosol can

3.2 Mixtures

Diphenylmethanediisocyanate, isomers and homologues

Concentration	$40 \leq x < 48 \%$
CAS number	9016-87-9
EC number	618-498-9
Hazard classification	- Skin Irrit. 2; H315 - Skin Sens. 1B; H317 - Eye Irrit. 2; H319 - Acute Tox. 4; H332 - Resp. Sens. 1B; H334 - STOT SE 3; H335 - Carc. 2; H351 - STOT RE 2; H373

ATE (Inhalation - mists / powders) 1.5 mg/l

Substance with a community workplace exposure limit.

CHLORINATED PARAFFINS, C14-17

Concentration	$26.1 \leq x < 40 \%$
CAS number	85535-85-9
EC number	287-477-0
INDEX number	602-095-00-X
Registration Number	01-2119519269-33-xxxx
Hazard classification	- Lact.; H362 - Aquatic Acute 1; H400 - Aquatic Chronic 1; H410
M Factor (acute)	100
M Factor (chronic)	10
Additional classification	EUH066
Substance PBT	
Substance vPvB	

Dimethyl ether

Concentration	$9 \leq x < 14 \%$
CAS number	115-10-6
EC number	204-065-8
INDEX number	603-019-00-8
Registration Number	01-2119472128-37-xxxx
Hazard classification	- Flam. Gas 1A; H220 - Press. Gas; H280
Classification note according to Annex VI to the CLP Regulation:	U

Section 3

Substance with a community workplace exposure limit.

Reaction mass of 2-ethylpropane-1,3-diol and 5-ethyl-1,3-dioxane-5-methanol and propylidynetrimethanol

Concentration	$3.5 \leq x < 5.5 \%$
EC number	904-153-2
Registration Number	01-2119488034-38-xxxx
Hazard classification	• Eye Irrit. 2; H319

The full wording of hazard (H) phrases is given in section 16 of the sheet.

The product is an aerosol containing propellants. For the purposes of calculation of the health hazards, propellants are not considered (unless they have health hazards). The percentages indicated are inclusive of the propellants.

Percentage of propellants: 25 %

Section 4 First aid measures

4.1 Description of first aid measures

In case of doubt or in the presence of symptoms contact a doctor and show him this document.

In case of more severe symptoms, ask for immediate medical aid.

EYES: Remove, if present, contact lenses if the situation allows you to do so easily. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Take off immediately all contaminated clothing. Wash immediately and thoroughly with running water (and soap if possible). Get medical advice/attention. Avoid further contact with contaminated clothing.

INGESTION: Do not induce vomiting unless explicitly authorised by a doctor. Do not give anything by mouth to an unconscious person. Get medical advice/attention.

INHALATION: Remove victim to fresh air, away from the accident scene. In the event of respiratory symptoms (coughing, wheezing, breathing difficulty, asthma) keep the victim in a comfortable position for breathing. If necessary administer oxygen. If the subject stops breathing, administer artificial respiration. Get medical advice/attention.

Rescuers protection

It is good practice for rescuers lending support to a person who has been exposed to a chemical substance or to a mixture to wear personal protective equipment. The nature of such protection depends on the hazard level of the substance or mixture, on the type of exposure and on the extent of the contamination. In the absence of other more specific indications, use of disposable gloves in the event of possible contact with body fluids is recommended. For the type of PPE suitable for the characteristics of the substance or mixture, see section 8.

4.2 Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

DELAYED EFFECTS: Poisoning symptoms can appear even hours after exposure: it is therefore appropriate to keep the injured person under observation in the hours following the accident.

4.3 Indication of any immediate medical attention and special treatment needed

Call a poison center/doctor if you feel unwell.

Means to have available in the workplace for specific and immediate treatment

Running water for skin and eye wash.

Section 5 Firefighting measures

5.1 Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

Section 5

5.2 Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

If overheated, aerosol cans can deform, explode and be propelled considerable distances. Put a protective helmet on before approaching the fire. Do not breathe combustion products.

5.3 Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

Section 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site. Send away individuals who are not suitably equipped. Wear protective gloves / protective clothing / eye protection / face protection.

6.2 Environmental precautions

Do not disperse in the environment.

6.3 Methods and material for containment and cleaning up

Use inert absorbent material to soak up leaked product. Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4 Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

Section 7 Handling and storage

7.1 Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

7.2 Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

Storage class TRGS 510 (Germany)

2B – Aerosol dispensers and lighters

Applicable technical instruction according to Royal Decree 656/2017:

Classification	Storage in fixed containers	Storage in mobile containers
▪ H222 – Aerosol 1	Not applicable	MIE APQ-10 – Storage in mobile containers

Respect the joint storage conditions established in Royal Decree 656/2017.

7.3 Specific end use(s)

Information not available.

Section 8

Section 8 Exposure controls/personal protection

8.1 Control parameters

Regulatory references

European Union-OEL	Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.
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Dimethyl ether

	TWA		STEL		CEILING		Remarks
	mg/m ³	ppm	mg/m ³	ppm	mg/m ³	ppm	
European Union-OEL	1,920	1,000					--

Predicted no-effect concentration - PNEC

Normal value of STP microorganisms	160 mg/l
Normal value in fresh water	0.155 mg/l
Normal value for fresh water sediment	0.681 mg/kg/d
Normal value in marine water	0.016 mg/l
Normal value for marine water sediment	0.069 mg/kg/d
Normal value for the terrestrial compartment	0.045 mg/kg/d
Normal value for water, intermittent release	1.549 mg/l

Health - Derived no-effect level - DNEL / DMEL

Local effect

Systemic effect

Consumers, long-term, inhalation	Not available	471 mg/m ³
Workers, long-term, inhalation	Not available	1,894 mg/m ³

Diphenylmethanediisocyanate, isomers and homologues

	TWA		STEL		CEILING		Remarks
	mg/m ³	ppm	mg/m ³	ppm	mg/m ³	ppm	
European Union-OEL		0.005					--

Predicted no-effect concentration - PNEC

Normal value of STP microorganisms	1 mg/l
Normal value in fresh water	1 mg/l
Normal value in marine water	0.1 mg/l
Normal value for the terrestrial compartment	1 mg/kg
Normal value for water, intermittent release	10 mg/l

Health - Derived no-effect level - DNEL / DMEL

Local effect

Systemic effect

Consumers, short-term, inhalation	0.05 mg/m ³	
Consumers, long-term, inhalation	0.025 mg/m ³	
Workers, short-term, inhalation	0.1 mg/m ³	
Workers, long-term, inhalation	0.05 mg/m ³	

Reaction mass of 2-ethylpropane-1,3-diol and 5-ethyl-1,3-dioxane-5-methanol and propylidynetrimethanol

Predicted no-effect concentration - PNEC

Normal value of STP microorganisms	100 mg/l
Normal value in fresh water	0.743 mg/l
Normal value in marine water	0.0743 mg/l
Normal value for water, intermittent release	0.743 mg/l

Health - Derived no-effect level - DNEL / DMEL

Local effect

Systemic effect

Consumers, long-term, dermal		2.5 mg/kg bw/d
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Section 8

Health - Derived no-effect level - DNEL / DMEL	Local effect	Systemic effect
Consumers, long-term, inhalation		4.4 mg/m ³
Consumers, long-term, oral		2.5 mg/kg bw/d
Workers, long-term, dermal		4.2 mg/kg bw/d
Workers, long-term, inhalation		14.6 mg/m ³

8.2 Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

When choosing risk management measures and operating conditions, consult the exposure scenarios attached.

Provide an emergency shower with face and eye wash station.

Exposure levels must be kept as low as possible to avoid significant build-up in the organism. Manage personal protective equipment so as to guarantee maximum protection (e.g. reduction in replacement times).

HAND PROTECTION

If contact with the product is expected, it is recommended to protect your hands with work gloves (see standard EN 374).

If supplied, for a short duration of manipulation (indicated in the device manual), it is possible to use the disposable glove supplied together with the product compliant with EU regulation 2016/425 and CE certified.

SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344/EN ISO 13034).

Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, a mask with a type AX filter combined with a type P filter should be worn (see standard EN 14387).

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

Section 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	aerosol	
Colour	green	
Odour	characteristic	
Odour threshold	Not applicable	
Melting point / freezing point	Not available	
Initial boiling point	Not applicable	
Flammability	flammable gas	
Lower explosive limit	1.5 % (w/w)	
Upper explosive limit	16 % (w/w)	
Flash point	Not applicable	
Auto-ignition temperature	226 °C (438.8 °F)	Remarks: 1 013 hPa
Decomposition temperature	Not available	
pH	not soluble in water	
Kinematic viscosity	Not applicable	
Solubility	insoluble in water	

Section 9

Partition coefficient: n-octanol/water	Not available	
Vapour pressure	Not applicable	
Density and/or relative density	1.1652 kg/l	
Relative vapour density	Not available	

Particle characteristics

Information not available.

9.2 Other information

9.2.1 Information with regard to physical hazards

Information not available.

9.2.2 Other safety characteristics

Evaporation rate	the propellant is released, the extruded PU foam does not evaporate.	
Explosive properties	The product is not explosive but the formation of explosive air/gas mixtures is possible.	
Total solids	0 %	Temperature: 250 °C (482 °F)

Section 10 Stability and reactivity

10.1 Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

Diphenylmethanediisocyanate, isomers and homologues

Reacts with: water, acids, alcohols, amines, bases

10.2 Chemical stability

The product is stable in normal conditions of use and storage.

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SADT > 200 °C (> 392 °F)

10.3 Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

Diphenylmethanediisocyanate, isomers and homologues

Risk of explosion on contact with: water, acids, alcohols, amines, bases

10.4 Conditions to avoid

Avoid overheating.

Dimethyl ether

Avoid exposure to: heat, naked flames, electrostatic discharges

Diphenylmethanediisocyanate, isomers and homologues

Avoid exposure to: high temperatures, moisture

10.5 Incompatible materials

Strong reducing or oxidising agents, strong acids or alkalis, hot material.

Section 10

Dimethyl ether

Avoid contact with: strong oxidising agents, natural rubbers, oxygen

Diphenylmethanediisocyanate, isomers and homologues

Keep away from: water, acids, alcohols, amines, bases

10.6 Hazardous decomposition products

Information not available.

Section 11 Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

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

11.1.1 Metabolism, toxicokinetics, mechanism of action and other information

Information not available.

11.1.2 Information on likely routes of exposure

Information not available.

11.1.3 Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available.

11.1.4 Interactive effects

Information not available.

11.1.5 ACUTE TOXICITY

ATE (Inhalation - mists / powders) of the mixture	2.679 mg/l
ATE (Oral) of the mixture	Not classified (no significant component)
ATE (Dermal) of the mixture	Not classified (no significant component)

Dimethyl ether

LC50 (Inhalation vapours):	309 mg/l	Exposure duration: 4 hours Species/guidelines: Rat
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CHLORINATED PARAFFINS, C14-17

LD50 (Oral):	> 4,000 mg/kg	Species/guidelines: Rat - Wistar
LC50 (Inhalation vapours):	> 48.17 mg/l	Exposure duration: 4 hours Species/guidelines: Rat

Diphenylmethanediisocyanate, isomers and homologues

LD50 (Oral):	> 2,000 mg/kg	Species/guidelines: ratto, maschio/femmina
LD50 (Dermal):	> 9,400 mg/kg	Species/guidelines: coniglio, maschio/femmina
ATE (Inhalation - mists / powders)	1.5 mg/l	estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)

Reaction mass of 2-ethylpropane-1,3-diol and 5-ethyl-1,3-dioxane-5-methanol and propylidynetrimethanol

LD50 (Oral):	2,000 mg/kg	Species/guidelines: Rat
LD50 (Dermal):	10,000 mg/kg	Species/guidelines: Rabbit

Section 11

11.1.6 SKIN CORROSION/IRRITATION

Causes skin irritation.

11.1.7 SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation.

11.1.8 RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin
Sensitising for the respiratory system

11.1.9 GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

11.1.10 CARCINOGENICITY

Suspected of causing cancer.

11.1.11 REPRODUCTIVE TOXICITY

May cause harm to breast-fed children.

11.1.12 STOT - SINGLE EXPOSURE

May cause respiratory irritation.

11.1.13 STOT - REPEATED EXPOSURE

May cause damage to organs through prolonged or repeated exposure.

11.1.14 ASPIRATION HAZARD

Excluded because the aerosol does not allow the accumulation of a significant amount of product in the mouth

11.2 Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

Section 12 Ecological information

This product is dangerous for the environment and is toxic for aquatic organisms. In the long term, it has negative effects on the aquatic environment.

12.1 Toxicity**Dimethyl ether**

EC50 - for Crustacea	> 4.4 mg/l	Exposure duration: 48 hours Species/guidelines: Daphnia magna
LC50 - for Fish	> 4.1 mg/l	Exposure duration: 96 hours Species/guidelines: Poecilia reticulata
EC50 - for Algae / Aquatic Plants	154.9 mg/l	Exposure duration: 72 hours Species/guidelines: met. ECOSAR

CHLORINATED PARAFFINS, C14-17

EC50 - for Crustacea	0.0077 mg/l	Exposure duration: 48 hours Species/guidelines: Daphnia magna
LC50 - for Fish	> 5,000 mg/l	Exposure duration: 96 hours Species/guidelines: Alburnus alburnus

Section 12

EC50 - for Algae / Aquatic Plants	> 3.2 mg/l	Exposure duration: 72 hours Species/guidelines: Pseudokirchneriella subcapitata
Chronic NOEC for Crustacea	0.01 mg/l	Species/guidelines: Daphnia magna

Diphenylmethanediisocyanate, isomers and homologues

EC50 - for Crustacea	> 1,000 mg/l	Exposure duration: 24 hours Species/guidelines: Daphnia magna
LC50 - for Fish	> 1,000 mg/l	Exposure duration: 96 hours Species/guidelines: Danio rerio
EC50 - for Algae / Aquatic Plants	> 1,640 mg/l	Exposure duration: 72 hours Species/guidelines: Scenedesmus subspicatus
Chronic NOEC for Crustacea	> 10 mg/l	Species/guidelines: Daphnia magna (21 d)

Reaction mass of 2-ethylpropane-1,3-diol and 5-ethyl-1,3-dioxane-5-methanol and propylidynetrimethanol

EC50 - for Crustacea	< 125 mg/l	Exposure duration: 48 hours Species/guidelines: Daphnia magna - OECD Guideline 202
LC50 - for Fish	1,250 mg/l	Exposure duration: 96 hours Species/guidelines: Brachydanio rerio - OECD 203
EC50 - for Algae / Aquatic Plants	144 mg/l	Exposure duration: 72 hours Species/guidelines: Selenastrum capricornutum - OECD test guideline 201
Chronic NOEC for Fish	500 mg/l	Species/guidelines: Brachydanio rerio
Chronic NOEC for Algae / Aquatic Plants	62 mg/l	Species/guidelines: Selenastrum capricornutum

12.2 Persistence and degradability

Dimethyl ether

Degradability	NOT rapidly degradable
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CHLORINATED PARAFFINS, C14-17

Solubility in water	< 0.1 mg/l
Degradability	NOT rapidly degradable

Diphenylmethanediisocyanate, isomers and homologues

Degradability	NOT rapidly degradable
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Reaction mass of 2-ethylpropane-1,3-diol and 5-ethyl-1,3-dioxane-5-methanol and propylidynetrimethanol

Solubility in water	1,000 g/l
Degradability	Inherently degradable

12.3 Bioaccumulative potential

Dimethyl ether

Partition coefficient n-octanol/water	0.07 LogKow
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CHLORINATED PARAFFINS, C14-17

Partition coefficient n-octanol/water	7.2 LogKow
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Diphenylmethanediisocyanate, isomers and homologues

Bioconcentration factor	200
Partition coefficient n-octanol/water	4.51 LogKow

12.4 Mobility in soil

CHLORINATED PARAFFINS, C14-17

Partition coefficient soil/water	5 LogKoc
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Section 12

12.5 Results of PBT and vPvB assessment

PBT substances contained

CHLORINATED PARAFFINS, C14-17

vPvB substances contained

CHLORINATED PARAFFINS, C14-17

12.6 Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

12.7 Other adverse effects

Information not available.

Section 13 Disposal considerations

EWC: 160504.

13.1 Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

The management of waste arising from the use or dispersal of this product must be organised in accordance with occupational safety regulations. See section 8 for possible need for PPE.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

Directive 2008/98/EC (waste)

For the disposal of waste from this material, the hazard characteristics shall be assessed in accordance with Directive 2008/98/EC. Any transboundary shipment must comply with Regulation (EU) 2024/1157.

Hazardous waste classification - Reg. (UE) 1357/2014

HP 3 – Flammable

HP 4 – Irritant — skin irritation and eye damage

HP 5 – Specific Target Organ Toxicity (STOT)/Aspiration Toxicity

HP 6 – Acute Toxicity

HP 7 – Carcinogenic

HP 13 – Sensitising

HP 14 – Ecotoxic

Section 14 Transport information

14.1 UN number or ID number

ADR / RID	IMDG	IATA
UN 1950	UN 1950	UN 1950

14.2 UN proper shipping name

ADR / RID	AEROSOLS
IMDG	AEROSOLS
IATA	AEROSOLS, FLAMMABLE

Section 14

14.3 Transport hazard class(es)

	Class	Label	
ADR / RID	2	2.1	
IMDG	2	2.1	
IATA	2	2.1	

14.4 Packing group

ADR / RID	IMDG	IATA

14.5 Environmental hazards

ADR / RID	Environmentally Hazardous	
IMDG	Marine Pollutant	
IATA	Environmentally Hazardous	

For Air transport, environmentally hazardous mark is only mandatory for UN 3077 and UN 3082.

14.6 Special precautions for user

ADR / RID			
Hazard identification No. - Kemler		Limited Quantities	1 L
Tunnel restriction code	(D)	Special provisions	190, 327, 344, 625
IMDG			
EmS	F-D, S-U	Limited Quantities	
IATA			
Maximum quantity (Cargo)	150 L	Packaging instructions (Cargo)	203
Maximum quantity (Passengers)	75 L	Packaging instructions (Passengers)	203
Special provisions	A145, A167, A802		

14.7 Maritime transport in bulk according to IMO instruments

Not applicable

Section 15

Section 15 Regulatory information

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

Seveso Category - Directive 2012/18/EU:

P3b – E1

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

	Restrictions	Registration Number EU
Product restrictions	3, 40	
Contained substance		
	74	
Diphenylmethanediisocyanate, isomers and homologues	74	

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

Not applicable

Substances in Candidate List (Art. 59 REACH)

CHLORINATED PARAFFINS, C14-17

Registration Number EU

01-2119519269-33-xxxx

Substances subject to authorisation (Annex XIV REACH)

Authorisation
Number

Sunset date

Registration Number EU

None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Regulation (EU) 2019/1021 - on persistent organic pollutants

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

Notification Art. 45 CLP

The mixture may not have been notified in all EU Member States. In the event of resale in a country other than the one in which it was purchased, contact the supplier to verify any applicable obligations.

Regulation (EU) 2024/590 – Substances that deplete the ozone layer

Annex I. Contains:

None

Annex II. Contains:

None

German regulation on the classification of substances hazardous to water (AwSV, vom 18. April 2017)

WGK2 – Hazard to waters

Denmark - MAL code - Executive Order No. 301 of 13 May 1993

n.a.

Additional information according to EC Regulation no. 552/2009 of 22 June 2009:

Section 15

The use of this product may cause allergic reactions in people already sensitized to diisocyanates. People with asthma, eczema or skin problems should avoid contact, including dermal contact, with this product. This product should not be used under conditions of poor ventilation, unless a protective mask with a suitable gas filter (e.g. type A1 according to EN 14387) is used.

From 24 August 2023, appropriate training is required before industrial or professional use.

15.2 Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

Section 16 Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Acute Tox. 4	Acute toxicity, category 4
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
Carc. 2	Carcinogenicity, category 2
Eye Irrit. 2	Eye irritation, category 2
Flam. Gas 1A	Flammable gas, category 1A
Lact.	Reproductive toxicity, effects on or via lactation
Press. Gas	Gas under pressure
Resp. Sens. 1B	Respiratory sensitization, category 1B
Skin Irrit. 2	Skin irritation, category 2
Skin Sens. 1B	Skin sensitization, category 1B
STOT RE 2	Specific target organ toxicity - repeated exposure, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
EUH066	Repeated exposure may cause skin dryness or cracking.
H220	Extremely flammable gas.
H280	Contains gas under pressure; may explode if heated.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H362	May cause harm to breast-fed children.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Legend

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EC50: Effective concentration (required to induce a 50% effect)
- EC: Identifier in ESIS (European archive of existing substances)
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization

Section 16

Legend

- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent, bioaccumulative and toxic
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PMT: Persistent, mobile and toxic
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very persistent and very bioaccumulative
- vPvM: Very persistent and very mobile
- WGK: Water hazard classes (German).

General Bibliography

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
 3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
 4. Regulation (EC) 790/2009 (I ATP CLP) of the European Parliament
 5. Regulation (EU) 286/2011 (II ATP CLP) of the European Parliament
 6. Regulation (EU) 618/2012 (III ATP CLP) of the European Parliament
 7. Regulation (EU) 487/2013 (IV ATP CLP) of the European Parliament
 8. Regulation (EU) 944/2013 (V ATP CLP) of the European Parliament
 9. Regulation (EU) 605/2014 (VI ATP CLP) of the European Parliament
 10. Regulation (EU) 2015/1221 (VII ATP CLP) of the European Parliament
 11. Regulation (EU) 2016/918 (VIII ATP CLP) of the European Parliament
 12. Regulation (EU) 2016/1179 (IX ATP CLP)
 13. Regulation (EU) 2017/776 (X ATP CLP)
 14. Regulation (EU) 2018/669 (XI ATP CLP)
 15. Regulation (EU) 2019/521 (XII ATP CLP)
 16. Delegated Regulation (UE) 2018/1480 (XIII ATP CLP)
 17. Regulation (EU) 2019/1148
 18. Delegated Regulation (EU) 2020/217 (XIV ATP CLP)
 19. Delegated Regulation (EU) 2020/1182 (XV ATP CLP)
 20. Delegated Regulation (EU) 2021/643 (XVI ATP CLP)
 21. Delegated Regulation (EU) 2021/849 (XVII ATP CLP)
 22. Delegated Regulation (EU) 2022/692 (XVIII ATP CLP)
 23. Delegated Regulation (EU) 2023/707
 24. Delegated Regulation (EU) 2023/1434 (XIX ATP CLP)
 25. Delegated Regulation (EU) 2023/1435 (XX ATP CLP)
 26. Delegated Regulation (EU) 2024/197 (XXI ATP CLP)
 27. Delegated Regulation (EU) 2024/2564 (XXII ATP CLP)
 28. Regulation (EU) 2024/2865
 29. Delegated Regulation (EU) 2025/1222 (XXIII ATP CLP)
- The Merck Index. - 10th Edition
 - Handling Chemical Safety
 - INRS - Fiche Toxicologique (toxicological sheet)
 - Patty - Industrial Hygiene and Toxicology
 - N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
 - IFA GESTIS website
 - ECHA website
 - Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

Note for users

Section 16

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

Calculation methods for classification

Chemical and physical hazards:

Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards:

Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards:

Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes from the previous revision

This SDS has been prepared with a different software from the one previous revision. The new calculation does not allow us to identify all the differences compared to the previous version. We therefore recommend carefully reviewing all 16 sections of the SDS. We remain available to provide any clarification regarding the content or the changes made compared to the previous version, which is available to professional or industrial users.

Training instructions:

Workers who come into contact with dangerous substances must be informed by the employer, to the extent necessary, the effects of these substances, the manipulation methods, protection measures, first aid principles, the necessary reclamation procedures and procedures for the liquidation of faults and accidents.

Professional staff who manipulate this chemical mixture must be trained on the safety regulations and on the data shown in the safety card.

Information pursuant to EU Regulation 2020/1149 (<https://eur-lex.europa.eu/legal-content/it/txt/?uri=celex:320r1149>):

If the concentration of diisocyanate, considered individually and in a combination, is higher than or equal to 0.1 % by weight:

- The following wording must appear on the packaging, visibly separated from the other information reported on the label: "Starting from 24 August 2023, industrial or professional use is allowed only after receiving adequate training".

- The employer or the self-employed worker must ensure that industrial or professional users have completed adequate training with a positive outcome with the provisions established by the Member State in which it operates, on the safe use of the Diisocyanate before using these substances or mixes.

- The supplier must ensure that the recipient has educational materials and has access to training courses. Follow links

Training for the application sector application of polyurethane products in the construction sector - Stickers, sealants and foams applied directly by small packaging at room temperature: <https://isopa-aisbl.idloom.events/048>.

Further information: <https://www.feica.eu/our-projects/safe-use-diisocyanates>

At www.safeusediisocyanates.eu it is possible to find all the material necessary to be trained according to the legal requirements.