

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008 This SDS is for generic information purposes and does not reflect required country specific information for OEL

ZWALUW PU-FOAM 2C Supercedes Date: 28-Jul-2021 Revision date 28-Jul-2021 Revision Number 1.02

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

1.1. Product identifier

Product NameZWALUW PU-FOAM 2CPure substance/mixtureMixture

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

Recommended use	Building and construction work.
Uses advised against	None known.

1.3. Details of the supplier of the safety data sheet

Company Name Bostik GmbH An der Bundesstrasse 16 33829 Borgholzhausen, Germany Tel: +49 (0) 5425 / 801 0 Fax: +49 (0) 5425 / 801 140

E-mail address

SDS.box-EU@bostik.com

1.4. Emergency telephone number

Emergency Telephone

No information available

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Acute toxicity - Inhalation (Vapours)	Category 4 - (H332)
Acute toxicity - Inhalation (Dusts/Mists)	Category 4 - (H332)
Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 2 - (H319)
Respiratory sensitisation	Category 1 - (H334)
Skin sensitisation	Category 1 - (H317)
Carcinogenicity	Category 2 - (H351)
Specific target organ toxicity — single exposure	Category 3 - (H335)
Specific target organ toxicity — repeated exposure	Category 2 - (H373)
Aerosols	Category 1 - (H222, H229)

2.2. Label elements

Contains Isocyanic acid, polymethylenepolyphenylene ester



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Signal word

Danger

Hazard statements

- 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.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H222 Extremely flammable aerosol.
- H229 Pressurised container: May burst if heated.

Precautionary Statements - EU (§28, 1272/2008)

- P101 If medical advice is needed, have product container or label at hand
- P102 Keep out of reach of children
- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
- P211 Do not spray on an open flame or other ignition source
- P251 Do not pierce or burn, even after use
- P260 Do not breathe mist/vapours/spray
- P271 Use only outdoors or in a well-ventilated area
- P280 Wear protective gloves/protective clothing/eye protection/face protection
- P302 + P352 IF ON SKIN: Wash with plenty of water and soap

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

- P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor
- P405 Store locked up
- P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F
- P501 Dispose of contents/ container to an approved waste disposal plant

Special provisions concerning the labelling of certain mixtures

Persons already sensitised to disocyanates may develop allergic reactions when using this product. Persons suffering from 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 an appropriate gas filter (i.e. Type A1 according to standard EN 14387) is used. As from 24 August 2023 adequate training is required before industrial or professional use.

Additional information

This product requires tactile warnings if supplied to the general public.

2.3. Other hazards

In case of insufficient ventilation and/or through use, the formation of a explosive/highly flammable mixture is possible.

PBT & vPvB

This mixture contains no substance considered to be persistent, bioaccumulating or toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical name	EC No.	CAS No.	Weight-%	Classification according to	Specific concentration limit	REACH registration
				Regulation (EC) No. 1272/2008	(SCL)	number

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				[CLP]		
Isocyanic acid, polymethylenepolypheny lene ester	618-498-9	9016-87-9	40 - <80	STOT SE 3 (H335) STOT RE 2 (H373) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Resp. Sens. 1 (H334) Skin Sens. 1 (H317) Carc. 2 (H351) Acute Tox. 4 (H332)	STOT SE 3 ::: C>=5% Skin Irrit. 2 :: C>=5% Eye Irrit. 2 :: C>=5% Resp. Sens. 1 :: C>=0.1%	[7]
Phosphorous oxychloride, reaction products with propylene oxide	807-935-0	1244733-77- 4	10 - <20	Acute Tox. 4 (H302)		01-2119486772- 26-XXXX
Dimethyl ether	204-065-8	115-10-6	5 - <10	Flam. Gas 1 (H220) Press. Gas		01-2119472128- 37-XXXX
Poly(oxy-1,2-ethanediyl), .alphatridecylomega hydroxy-, branched (>=2.5 EO)	931-138-8	69011-36-5	1 - <5	Acute Tox. 4 (H302) Eye Dam. 1 (H318)	Eye Irrit. 2 :: C>1% Eye Dam. 1 : C>10%	[7]
Halogenated polyetherpolyol	-	68441-62-3	1 - <2.5	Eye Irrit. 2 (H319) Acute Tox. 4 (H302)		[7]

NOTE [7] - No registration number is given for this substance because it is a polymer exempted from registration according to the provisions of Article 2(9) of REACH. All monomers or other substances within the polymer are registered or exempt from registration

Full text of H- and EUH-phrases: see section 16

Note: ^ indicates not classified, however, the substance is listed in section 3 as it has an OEL

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice	IF exposed or concerned: Get medical advice/attention. If medical advice is needed, have product container or label at hand.
Inhalation	Remove to fresh air. Get medical attention immediately if symptoms occur.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Consult an ophthalmologist.
Skin contact	Wash off immediately with soap and plenty of water. In the case of skin irritation or allergic reactions see a doctor.
Ingestion	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious

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	person. Get immediate medical advice/attention.		
Self-protection of the first aider	Remove all sources of ignition. Avoid breathing vapours or mists. Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. See section 8 for more information.		
4.2. Most important symptoms and	d effects, both acute and delayed		
Symptoms	May cause allergy or asthma symptoms or breathing difficulties if inhaled. Itching. Rashes. Hives. Difficulty in breathing.		
4.3. Indication of any immediate m	edical attention and special treatment needed		
Note to doctors	May cause sensitisation in susceptible persons. Treat symptomatically.		
SECTION 5: Firefighting me	asures		
5.1. Extinguishing media			
Suitable Extinguishing Media	Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.		
Unsuitable extinguishing media	Full water jet.		
5.2. Special hazards arising from t	he substance or mixture		
Specific hazards arising from the chemical	Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Containers may explode when heated.		
Hazardous combustion products	Carbon monoxide. Carbon dioxide (CO2). Nitrogen oxides (NOx). Hydrogen cyanide. Isocyanates.		
5.3. Advice for firefighters			
Special protective equipment and precautions for fire-fighters	Wear self contained breathing apparatus for fire fighting if necessary.		
SECTION 6: Accidental relea	ase measures		
6.1. Personal precautions, protect	ive equipment and emergency procedures		
Personal precautions	Ensure adequate ventilation. Do not breathe vapour or mist. Use personal protective equipment as required. Take precautionary measures against static discharges. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).		
Other information	Ventilate the area. Refer to protective measures listed in Sections 7 and 8.		

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions Prevent product from entering drains. Do not allow to enter into soil/subsoil.

6.3. Methods and material for containment and cleaning up

Methods for containment Contain and collect spillage 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).

Methods for cleaning up Take precautionary measures against static discharges. Take up mechanically, placing in appropriate containers for disposal.

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Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling	Ensure adequate ventilation. Do not breathe vapour or mist. Use personal protection equipment. Avoid contact with skin, eyes or clothing. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not puncture or incinerate cans. Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.
General hygiene considerations	Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Take off all contaminated clothing and wash it before reuse.
7.2. Conditions for safe storage, inc	cluding any incompatibilities
Storage Conditions	Store in accordance with the particular national regulations. Protect from sunlight. Store in a well-ventilated place. Keep at a temperature not exceeding 50 °C. Keep away from open flames, hot surfaces and sources of ignition. Keep away from food, drink and animal feedingstuffs.
Recommended storage temperature	Keep at temperatures between 10 and 35 °C.
7.3. Specific end use(s)	
Specific use(s) Building and construction work.	
Risk Management Methods (RMM)	The information required is contained in this Safety Data Sheet.

Other information

Observe technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Only European Community Occupational Exposure Limits will be shown in this document. Please refer to regional SDS for further information.

Chemical name	European Union
Dimethyl ether	TWA: 1000 ppm
115-10-6	TWA: 1920 mg/m ³

Derived No Effect Level (DNEL) No information available

Derived No Effect Level (DNEL)				
Phosphorous oxychloride, reaction products with propylene oxide (1244733-77-4)				
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor	
worker Long term	Inhalation	8.2 mg/m ³		
Systemic health effects				

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worker	Inhalation	22.6 mg/m ³	
Short term			
Systemic health effects			
worker	Dermal	2.91 mg/kg bw/d	
Long term			
Systemic health effects			

Dimethyl ether (115-10-6)				
Туре	Exposure route	Derived No Effect Level	Safety factor	
	-	(DNEL)		
worker	Inhalation	1894 mg/m³		
Long term				
Systemic health effects				

Halogenated polyetherpolyol (68441-62-3)				
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor	
worker Long term Systemic health effects	Inhalation	6 mg/m³		
worker Long term Systemic health effects	Dermal	0.87 mg/kg bw/d		

Derived No Effect Level (DNEL)			
Phosphorous oxychloride, react	Phosphorous oxychloride, reaction products with propylene oxide (1244733-77-4)		
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Consumer Long term Systemic health effects	Inhalation	1.45 mg/m³	
Consumer Short term Systemic health effects	Inhalation	5.6 mg/m³	
Consumer Long term Systemic health effects	Dermal	1.04 mg/kg bw/d	
Consumer Long term Systemic health effects	Oral	0.52 mg/kg bw/d	
Consumer Short term Systemic health effects	Oral	2 mg/kg bw/d	

Dimethyl ether (115-10-6)			
Туре	Exposure route	Derived No Effect Level	Safety factor
		(DNEL)	
Consumer	Inhalation	471 mg/m³	
Long term		-	
Systemic health effects			

Halogenated polyetherpolyol (68441-62-3)			
Туре	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Consumer Long term Systemic health effects	Inhalation	1.5 mg/m³	
Consumer Long term Systemic health effects	Dermal	0.435 mg/kg bw/d	

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Predicted No Effect Concentration No information available. (PNEC)

Predicted No Effect Concentration (PNEC)		
Phosphorous oxychloride, reaction products with propylene oxide (1244733-77-4)		
Environmental compartment	Predicted No Effect Concentration (PNEC)	
Freshwater	0.32 mg/l	
Marine water	0.032 mg/l	
Sewage treatment plant	19.1 mg/l	
Freshwater sediment	11.5 mg/kg dry weight	
Marine sediment	1.15 mg/kg dry weight	
Soil	0.34 mg/kg dry weight	

Dimethy	vl ether	(115 - 10 - 6)
Difficult	yi cuici	(113-10-0)

Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	0.155 mg/l
Marine water	0.016 mg/l
Microorganisms in sewage treatment	160 mg/l
Freshwater sediment	0.681 mg/kg dry weight
Soil	0.45 mg/kg dry weight

8.2. Exposure controls

Engineering controls	Ensure adequate ventilation, especially in confined areas. Vapours/aerosols must be exhausted directly at the point of origin.
Personal protective equipmen	It
Eye/face protection	Wear safety glasses with side shields (or goggles). Eye protection must conform to standard EN 166.
Hand protection	Wear suitable gloves. Recommended Use:. Nitrile rubber. Butyl rubber. Glove thickness > 0.4 mm. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. The breakthrough time for the mentioned glove material is in general greater than 60 min. Gloves must conform to standard EN 374
Skin and body protection	Wear suitable protective clothing.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Recommended filter type:	Wear a respirator conforming to EN 140 with Type A/P2 filter or better. Organic gases and vapours filter conforming to EN 14387.

Environmental exposure controls Do not allow uncontrolled discharge of product into the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Appearance Colour Odour Odour threshold

Aerosol Purple Slight Characteristic No information available

Aerosol

Property pH pH (as aqueous solution) Melting point / freezing point Initial boiling point and boiling range Flash point Evaporation rate Flammability Flammability Limit in Air Values No data available No data available No data available Not applicable, Aerosol .

Not applicable, Aerosol . No data available No data available **Remarks** • Method Not applicable Insoluble in water

Not applicable, Aerosol

Not applicable, Aerosol

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Upper flammability or explosive limits	18.6 Vol.%
Lower flammability or explosive	1.7 Vol.%
Vapour pressure	6 bar @ 23 °C
Relative vapour density	No data available
Relative density Water solubility	Indicata available -
Solubility(ies)	No data available
Partition coefficient	No data available
Autoignition temperature	235 °C
Decomposition temperature	No data available
Dynamic viscosity	No data available
Explosive properties	No data available
Oxidising properties	No data available
9.2. Other information	
Solid content (%)	No information available
VOC Content (%)	0.057 c/cm3
Minimum Ignition Temperature (°C	0.957 g/cm²) 235
	,
SECTION 10: Stability and re	eactivity
10.1. Reactivity	
Reactivity	Product cures with moisture.
10.2. Chemical stability	
Stability	Stable under recommended storage conditions.
Explosion data	
Sensitivity to mechanical impact	None.
Sensitivity to static discharge	Yes.
10.3. Possibility of hazardous reac	tions
Possibility of hazardous reactions	Heating causes rise in pressure with risk of bursting. If overheated, the product may release flammable vapours that can form explosive gas mixtures.
10.4. Conditions to avoid	
Conditions to avoid	Heat, flames and sparks. Excessive heat. Do not freeze. Keep away from open flames, hot surfaces and sources of ignition. Extremes of temperature and direct sunlight.
10.5. Incompatible materials	
Incompatible materials	Strong acids. Strong bases. Strong oxidising agents. Incompatible with oxidising agents.
10.6. Hazardous decomposition pro	oducts_
Hazardous decomposition products	None under normal use conditions. Stable under recommended storage conditions.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Information on likely routes of exposure

Product Information	
Inhalation	Harmful by inhalation.
Eye contact	Causes serious eye irritation.
Skin contact	Causes skin irritation.
Ingestion	Based on available data, the classification criteria are not met.
Symptoms related to the physical,	chemical and toxicological characteristics
Symptoms	Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing.

Numerical measures of toxicity

Acute toxicity The following values are calculated	d based on chapter 3.1 of the GHS document
ATEmix (oral)	2,373.90 mg/kg
ATEmix (inhalation-dust/mist)	3.28 mg/l
ATEmix (inhalation-vapour)	19.00 mg/l
· · · ·	

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Isocyanic acid,	LD50 > 10000 mg/kg (Rattus)	LD 50 > 9400 mg/kg	=1.5 mg/L (Rattus) 4 h
polymethylenepolyphenylene		(Oryctolagus cuniculus)	
ester			
9016-87-9			
Phosphorous oxychloride,	LD50 > 500 mg/kg (males);	LD50 >2000 mg/Kg (Rattus)	LD50 >7 mg/L (4h)(Rattus)
reaction products with	LD50 = 632 mg/kg	(OECD 402)	(OECD 403)
propylene oxide	(females)(Rattus)		
1244733-77-4			
Dimethyl ether			=164000 ppm (Rattus) 4 h
115-10-6			
Poly(oxy-1,2-ethanediyl),	LD50 (Rattus) > 300 - <= 2000	LD50 (Oryctolagus cuniculus)	
.alphatridecylomegahydrox	mg/kg	> 2000 mg/kg	
y-, branched (>=2.5 EO)			
69011-36-5			
Halogenated polyetherpolyol	LD50 = 1337 mg/Kg (Rattus)		
68441-62-3	(OECD 401)		

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

Skin corrosion/irritation	Irritating to skin.
Serious eye damage/eye irritation	Causes serious eye irritation.
Respiratory or skin sensitisation	May cause sensitisation by inhalation. May cause sensitisation by skin contact.
Germ cell mutagenicity	Based on available data, the classification criteria are not met.

Carcinogenicity	Suspected of causing cancer. Contains a known or suspected carcinogen.	
Reproductive toxicity	Based on available data, the classification criteria are not met.	
STOT - single exposure	May cause respiratory irritation.	
STOT - repeated exposure	May cause damage to organs through prolonged or repeated exposure.	
Aspiration hazard	Based on available data, the classification criteria are not met.	
11.2. Information on other hazards		
11.2.1. Endocrine disrupting properties		
Endocrine disrupting properties	No information available.	
11.2.2. Other information		
Other adverse effects	No information available.	

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity

Chemical name	Algae/aquatic	Fish	Toxicity to	Crustacea	M-Factor	M-Factor
	plants		microorganisms			(long-term)
Isocyanic acid,	ErC50 (72h)	CL50 (96h)	-	EC50 (24H)		
polymethylenepolyphen	>1640 mg/L	>1000 mg/L		>1000 mg/L		
ylene ester	Algae	(Danio rerio)		Daphnia magna		
9016-87-9	(scenedesmus			-		
	subspicatus)					
	(OECD 201)					
Phosphorous	ErC50 (72h) =	LC50 (96h) =	-	LC50 (48h) =		
oxychloride, reaction	82 mg/L	56.2 mg/L		131 mg/L		
products with	(Pseudokirchner	(Brachydanio		Daphnia magna		
propylene oxide	iella	rerio) Static		-		
1244733-77-4	subcapitata)					
	OECD 201					
Dimethyl ether	-	LC50: >4.1g/L	-	> 4400 mg/L		
115-10-6		(96h, Poecilia		(Daphnia) (NEN		
		reticulata)		6501)		
Halogenated	-	LC50:	-	-		
polyetherpolyol		=560mg/L (96h,				
68441-62-3		Poecilia				
		reticulata)				

12.2. Persistence and degradability

Persistence and degradability No information available.

Component Information

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Isocyanic acid, polymethylenepolyphenylene ester (9016-87-9)			
Method	Exposure time	Value	Results
OECD Test No. 302C: Inherent	28 days	0% biodegradation	Not readily biodegradable
Biodegradability: Modified MITI Test		-	
(11)			

Halogenated polyetherpolyol (68441-62-3)			
Method	Exposure time	Value	Results
OECD Test No. 301D: Ready	28 days	16%	Not readily biodegradable
Biodegradability: Closed Bottle Test	-		
(TG 301 D)			

12.3. Bioaccumulative potential

Bioaccumulation

There is no data for this product.

Component Information

Chemical name	Partition coefficient	Bioconcentration factor (BCF)
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9	-	< 14
Phosphorous oxychloride, reaction products with propylene oxide 1244733-77-4	2.68	-
Dimethyl ether 115-10-6	-0.18	-
Halogenated polyetherpolyol 68441-62-3	3.3	-

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment The product does not contain any substance(s) classified as PBT or vPvB.

Chemical name	PBT and vPvB assessment
Phosphorous oxychloride, reaction products with propylene oxide 1244733-77-4	The substance is not PBT / vPvB
Dimethyl ether 115-10-6	The substance is not PBT / vPvB
Poly(oxy-1,2-ethanediyl), .alphatridecylomegahydroxy-, branched (>=2.5 EO) 69011-36-5	The substance is not PBT / vPvB
Halogenated polyetherpolyol 68441-62-3	The substance is not PBT / vPvB

12.6. Other adverse effects

Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused	Dispose of contents/container in accordance with local, regional, national, and
products	international regulations as applicable. Should not be released into the environment.

	Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers. Handle contaminated packages in the same way as the product itself.
European Waste Catalogue	08 05 01* waste isocyanates 16 05 04* gases in pressure containers (including halons) containing dangerous substances 17 06 04 insulation materials other than those mentioned in 17 06 01 and 17 06 03
Other information	Waste codes should be assigned by the user based on the application for which the product was used.

SECTION 14: Transport information

Land transport (ADR/RID)		
14.1 UN number or ID number	UN1950	
14.2 Proper Shipping Name	Aerosols	
14.3 Transport hazard class(es)	2	
Labels	2.1	
14.4 Packing group	Not regulated	
Description	UN1950, Aerosols, 2, (D)	
14.5 Environmental hazards	Not applicable	
14.6 Special Provisions	190, 327, 344, 625	
Classification code	5F	
Tunnel restriction code	(D)	
Limited Quantity (LQ)	1 L	
IMDG		
14.1 UN number or ID number	UN1950	
14.2 Proper Shipping Name	Aerosols	
14.3 Transport hazard class(es)	2.1	
14.4 Packing group	Not regulated	
Description	UN1950, Aerosols, 2.1	
14.5 Marine pollutant	NP	
14.6 Special Provisions	63,190, 277, 327, 344, 381, 959	
Limited Quantity (LQ)	See SP277	
EmS-No	F-D, S-U	
14.7 Transport in bulk according t	to Annex II of MARPOL and the IBC Code	Not applicable
Air transport (ICAO-TI / IATA-DGR)	<u>_</u>	
14.1 UN number or ID number	UN1950	
14.2 Proper Shipping Name	Aerosols, flammable	
14.3 Transport hazard class(es)	2.1	
14.4 Packing group	Not regulated	
Description	UN1950, Aerosols, flammable, 2.1	
14.5 Environmental hazards	Not applicable	
14.6 Special Provisions	A145, A167, A802	
Limited Quantity (LQ)	30 kg G	
ERG Code	10L	

Section 15: REGULATORY INFORMATION

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

European Union

ERG Code

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Check whether measures in accordance with Directive 94/33/EC for the protection of young people at work must be taken.

Take note of Directive 92/85/EC on the protection of pregnant and breastfeeding women at work

Registration, Evaluation, Authorization, and Restriction of Chemicals (REACh) Regulation (EC 1907/2006)

SVHC: Substances of Very High Concern for Authorisation:

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

EU-REACH (1907/2006) - Annex XVII - Substances subject to Restriction

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

Chemical name	CAS No.	Restricted substance per REACH Annex XVII
Isocyanic acid, polymethylenepolyphenylene ester	9016-87-9	56 74.
Diisocyantes		74

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If product supplied to the general public with substance ≥0.1%, then gloves must be provided with the product 74 If product supplied to the industrial or professional users with total monomeric diisocyanates ≥ 0.1%, then its packaging must mention "As from 24 August 2023 adequate training is required before industrial or professional use"

Substance subject to authorisation per REACH Annex XIV

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)

Dangerous substance category per Seveso Directive (2012/18/EU)

P3a - FLAMMABLE AEROSOLS P3b - FLAMMABLE AEROSOLS

Ozone-depleting substances (ODS) regulation (EC) 1005/2009 Not applicable

Persistent Organic Pollutants

Not applicable

National regulations

France

Occupational Illnesses (R-463-3, France)

Chemical name	French RG number
Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9	RG 62
Dimethyl ether 115-10-6	RG 84

Germany

Ordinance on Industrial Safety and Health - Germany - BetrSichV

Flammable liquid (R10), EEC: refer to Annex III No. 1 (fire and explosion hazards) and § 7 paragraph 3

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Water hazard class (WGK)	obviously hazardous to water (WGK 2)

TRGS - 510 Storage Class

Storage Class 2B : Aerosols

Netherlands

List of Carcinogenic, mutagenic and reproductive toxin substances in accordance with Inspectorate SZW (Netherlands)

DenmarkRegistration number(s) (P-no.)No information availableNorwayRegistration number(s) (PRN-no.)No information available

15.2. Chemical safety assessment

Chemical Safety Assessments have been carried out by the Reach registrants for substances registered at >10 tpa. No Chemical Safety Assessment has been carried out for this mixture.

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3

- H220 Extremely flammable gas
- H302 Harmful if swallowed
- H315 Causes skin irritation
- H317 May cause an allergic skin reaction
- H318 Causes serious eye damage
- 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
- H373 May cause damage to organs through prolonged or repeated exposure

Legend

TWA	TWA (time-weighted average)
STEL	STEL (Short Term Exposure Limit)
Ceiling	Ceiling Limit Value
*	Skin designation
SVHC	Substance(s) of Very High Concern
PBT	Persistent, Bioaccumulative, and Toxic (PBT) Chemicals
vPvB	Very Persistent and very Bioaccumulative (vPvB) Chemicals
STOT RE	Specific target organ toxicity - Repeated exposure
STOT SE	Specific target organ toxicity - Single exposure
EWC	European Waste Catalogue

Key literature references and sources for data No information available

Prepared By	Product Safety & Regulatory Affairs
Revision date	28-Jul-2021
Indication of changes	
Revision note	SDS sections updated, 2, 15, 16.

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Revision date 28-Jul-2021 Revision Number 1.02

Training Advice	AS FROM 24 AUGUST 2023 ADEQUATE TRAINING IS REQUIRED BEFORE INDUSTRIAL OR PROFESSIONAL USE When working with hazardous materials, regular training of operators is required by law
Further information	No information available

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer

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End of Safety Data Sheet