

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

1.1. Product identifier

Product form : Mixture
 Trade name : Parafoam Panelglue NBS
 Vaporizer : Aerosol

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

1.2.1. Relevant identified uses

Main use category : Professional use

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

DL CHEMICALS N.V.
 Roterijstraat 201-203
 B-8793 Waregem
 Belgium
 T + 32 56 62 70 51 - F + 32 56 60 95 68
MSDS@dl-chem.com - www.dl-chem.com

1.4. Emergency telephone number

Emergency number : + 32 56 62 70 51
 Only available during office hours.

Country	Official advisory body	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals-24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	+44 20 7188 7188	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Aerosol, Category 1 H222;H229
 Acute toxicity (oral), Category 4 H302
 Skin corrosion/irritation, Category 2 H315
 Serious eye damage/eye irritation, Category 2 H319
 Respiratory sensitisation, Category 1 H334

Parafoam Panelglue NBS

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Skin sensitisation, Category 1	H317
Carcinogenicity, Category 2	H351
Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation	H335
Specific target organ toxicity – Repeated exposure, Category 2	H373
Full text of H- and EUH-statements: see section 16	

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



CLP Signal word

: Danger

Contains

: 4,4'-methylenediphenyl diisocyanate, isomers and homologues, glycerol, propoxylated, reaction products of phosphoryl trichloride and 2-methyloxirane

Hazard statements (CLP)

: H222 - Extremely flammable aerosol.
H229 - Pressurised container: May burst if heated.
H302 - Harmful if swallowed.
H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.
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.

Precautionary statements (CLP)

: 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.
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear protective gloves, protective clothing, eye protection, face protection.
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C.
P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Extra phrases

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

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

Parafoam Panelglue NBS

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
4,4'-methylenediphenyl diisocyanate, isomers and homologues	CAS-No.: 9016-87-9 EC-No.: 618-498-9	≥ 40 - <60	Acute Tox. 4 (Inhalation:vapour), H332 (ATE=11 mg/l/4h) Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373
glycerol, propoxylated	CAS-No.: 25791-96-2 EC-No.: 500-044-5 REACH-no: 01-2119484612-36	≥ 10 - < 25	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight)
reaction products of phosphoryl trichloride and 2-methyloxirane	CAS-No.: 1244733-77-4 EC-No.: 807-935-0	≥ 10 - < 25	Acute Tox. 4 (Oral), H302 (ATE=632 mg/kg)
dimethyl ether substance with a Community workplace exposure limit (Note U)	CAS-No.: 115-10-6 EC-No.: 204-065-8 EC Index-No.: 603-019-00-8 REACH-no: 01-2119472128-37	≥ 5 - <10	Flam. Gas 1A, H220 Press. Gas (Liq.), H280
isobutane (Note C)(Note U)	CAS-No.: 75-28-5 EC-No.: 200-857-2 EC Index-No.: 601-004-00-0 REACH-no: 01-2119485395-27	≥ 5 - <10	Flam. Gas 1A, H220 Press. Gas (Liq.), H280
propane (Note U)	CAS-No.: 74-98-6 EC-No.: 200-827-9 EC Index-No.: 601-003-00-5 REACH-no: 01-2119486944-21	≥ 1 - < 2,5	Flam. Gas 1A, H220 Press. Gas (Liq.), H280
ethane-1,2-diol substance with a Community workplace exposure limit	CAS-No.: 107-21-1 EC-No.: 203-473-3 EC Index-No.: 603-027-00-1 REACH-no: 01-2119456816-28	< 0,1	Acute Tox. 4 (Oral), H302 (ATE=2000 mg/kg bodyweight)

Parafoam Panelglue NBS

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Specific concentration limits:		
Name	Product identifier	Specific concentration limits
4,4'-methylenediphenyl diisocyanate, isomers and homologues	CAS-No.: 9016-87-9 EC-No.: 618-498-9	(5 ≤C < 100) Skin Irrit. 2, H315

Note C : Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

Note U (Table 3): When put on the market gases have to be classified as 'Gases under pressure', in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case. The following codes are assigned: Press. Gas (Comp.), Press. Gas (Liq.), Press. Gas (Ref. Liq.), Press. Gas (Diss.). Aerosols shall not be classified as gases under pressure (See Annex I, Part 2, Section 2.3.2.1, Note 2)

Product subject to CLP Article 1.1.3.7. The disclosure rules of the components is modified in this case.

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

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: In all cases of doubt, or when symptoms persist, seek medical attention. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Take victim to fresh air, in a quiet place in an half laying position, do artificial respiration if necessary and urgently take medical advice.
First-aid measures after skin contact	: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. If necessary seek medical advice.
First-aid measures after eye contact	: Seek medical advice (show the label where possible). Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
First-aid measures after ingestion	: Do not induce vomiting. Vomiting: prevent asphyxia/aspiration pneumonia. Keep at rest. Rinse mouth out with water.

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

Symptoms/effects after inhalation	: Irritation of the respiratory tract.
Symptoms/effects after skin contact	: Allergic skin rash. Skin rash/inflammation. Irritation.
Symptoms/effects after eye contact	: Irritating to eyes.
Symptoms/effects after ingestion	: Ingestion may cause nausea and vomiting. Irritating to the digestive tract. . Abdominal pain.
Chronic symptoms	: May cause cancer.

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: ABC-powder. Alcohol resistant foam. Carbon dioxide.
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes.

Parafoam Panelglue NBS

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

5.3. Advice for firefighters

Precautionary measures fire	: Protective non-flammable clothing.
Firefighting instructions	: Cool down the containers exposed to heat with a water spray.
Protection during firefighting	: Use self-contained breathing apparatus and chemically protective clothing.
Other information	: Prevent fire fighting water from entering the environment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Stop leak if safe to do so. Refer to protective measures listed in Sections 7 and 8.
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6.1.1. For non-emergency personnel

Protective equipment	: See Section 8.
Emergency procedures	: Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment	: Equip rescue crew with proper protection. Equip cleanup crew with proper protection.
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6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment	: Absorb remaining liquid with sand or inert absorbent and remove to safe place. Do not absorb in saw-dust or other combustible absorbents.
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6.4. Reference to other sections

Concerning disposal elimination after cleaning, see section 13. Concerning personal protective equipment to use, see section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed	: Refer to Section 10 on Incompatible Materials.
Precautions for safe handling	: Keep container tight closed.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: Take precautionary measures against static discharge. Store in tightly closed, leak-proof containers. Keep container tightly closed and dry.
Storage conditions	: Store in a dry, cool and well-ventilated place.
Heat and ignition sources	: Store away from direct sunlight or other heat sources.
Storage area	: Keep away from food and drink.

7.3. Specific end use(s)

No additional information available.

Parafoam Panelglue NBS

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

dimethyl ether (115-10-6)	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOEL TWA	1920 mg/m ³
IOEL TWA [ppm]	1000 ppm
Ireland - Occupational Exposure Limits	
OEL STEL	1920 mg/m ³
OEL STEL [ppm]	1000 ppm
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA) [1]	400 mg/m ³
WEL TWA (OEL TWA) [2]	766 ppm
WEL STEL (OEL STEL)	958 mg/m ³
WEL STEL (OEL STEL) [ppm]	500 ppm
ethane-1,2-diol (107-21-1)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Ethylene glycol
IOEL TWA	52 mg/m ³
IOEL TWA [ppm]	20 ppm
IOEL STEL	104 mg/m ³
IOEL STEL [ppm]	40 ppm
Remark	vapour
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
Ireland - Occupational Exposure Limits	
OEL TWA [1]	104 mg/m ³
OEL TWA [2]	40 ppm
OEL STEL	52 mg/m ³
OEL STEL [ppm]	20 ppm
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA) [1]	52 mg/m ³
WEL TWA (OEL TWA) [2]	20 ppm
WEL STEL (OEL STEL)	104 mg/m ³
WEL STEL (OEL STEL) [ppm]	40 ppm
Remark	Vapour

8.1.2. Recommended monitoring procedures

No additional information available

Parafoam Panelglue NBS

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

8.2.2. Personal protection equipment

Personal protective equipment:

Face shield.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection			
Type	Field of application	Characteristics	Standard
Face shield	Droplet		EN 166, EN 167, EN 168

8.2.2.2. Skin protection

Skin and body protection	
Type	Standard
Wear anti-static discharges clothing and shoes. Foresee ground with earth	EN 1149-1, EN 1149-2, EN 1149-3, EN 13034, EN ISO 13982-1, EN ISO 6529, EN ISO 6530, EN 464

Hand protection:

Time of penetration is to be checked with the glove producer. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer. Gloves must be replaced after each use and whenever signs of wear or perforation appear

Hand protection					
Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Reusable gloves					EN ISO 374-1, EN 374-3, EN 420

Parafoam Panelglue NBS

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

8.2.2.3. Respiratory protection

Respiratory protection			
Device	Filter type	Condition	Standard
Gas mask	Gas filters, Particle filter		EN 149, EN 405

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

No additional information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Aerosol
Colour	: light yellow.
Odour	: No data available
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: -12 °C Aerosol propellant
Flash point	: Not applicable
Auto-ignition temperature	: 460 °C Aerosol propellant
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: < 300 kPa
Relative vapour density at 20°C	: No data available
Relative density	: No data available
Density	: 1019 kg/m ³
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

VOC content	: 16,75 %
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SECTION 10: Stability and reactivity

10.1. Reactivity

Stable in use and storage conditions as recommended in item 7.

10.2. Chemical stability

Stable at ambient temperature and under normal conditions of use.

Parafoam Panelglue NBS

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Heat. Direct sunlight.

10.5. Incompatible materials

Strong acids, strong bases and oxidation agents.

10.6. Hazardous decomposition products

Carbon oxides (CO, CO₂). Organic compounds.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity (oral) : May be harmful if swallowed
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Parafoam Panelglue NBS	
ATE CLP (oral)	1541,76 mg/kg
ATE CLP (dermal)	2000 mg/kg
ATE CLP (vapours)	26,68 mg/l/4h
4,4'-methylenediphenyl diisocyanate, isomers and homologues (9016-87-9)	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 Inhalation - Rat	11 mg/l
glycerol, propoxylated (25791-96-2)	
LD50 oral rat	> 500 mg/kg (OECD 401 method)
LD50 dermal rat	> 2000 mg/kg (OECD 402 method)
LC50 Inhalation - Rat	> 20 mg/l
dimethyl ether (115-10-6)	
LD50 oral	> 2000 mg/kg
LD50 dermal	> 2000 mg/kg
LC50 Inhalation - Rat	308,5 mg/l/4h
LC50 Inhalation - Rat [ppm]	164000 ppm Animal: rat, Animal sex: male, 95% CL: 142000 - 203000
isobutane (75-28-5)	
LD50 oral	> 2000 mg/kg
LD50 dermal	> 2000 mg/kg
LC50 Inhalation - Rat	> 5 mg/l
LC50 Inhalation - Rat [ppm]	570000 ppm IUCLID

Parafoam Panelglue NBS

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

propane (74-98-6)	
LD50 oral	> 2000 mg/kg
LD50 dermal	> 2000 mg/kg
LC50 Inhalation - Rat	> 5 mg/l
reaction products of phosphoryl trichloride and 2-methyloxirane (1244733-77-4)	
LD50 oral rat	632 µl/kg
LD50 dermal rat	> 2000 mg/kg
LC50 Inhalation - Rat	> 20 mg/l/4h
ethane-1,2-diol (107-21-1)	
LD50 oral	> 2000 mg/kg
LD50 dermal	> 2000 mg/kg
LC50 Inhalation - Rat	> 20 mg/l
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Suspected of causing cancer.
Reproductive toxicity	: Not classified
STOT-single exposure	: May cause respiratory irritation.
4,4'-methylenediphenyl diisocyanate, isomers and homologues (9016-87-9)	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: May cause damage to organs through prolonged or repeated exposure.
4,4'-methylenediphenyl diisocyanate, isomers and homologues (9016-87-9)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not classified
Parafoam Panelglue NBS	
Vaporizer	Aerosol

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

4,4'-methylenediphenyl diisocyanate, isomers and homologues (9016-87-9)	
LC50 - Fish [1]	> 1000 mg/l (OECD 203 method)
EC50 - Crustacea [1]	> 1000 mg/l (OECD 202 method)
EC50 - Other aquatic organisms [2]	≥ 100 mg/l Bacteria
EC50 72h - Algae [1]	> 1640 mg/l (OECD 201 method)
ErC50 algae	72h 1640 mg/l (OECD 201 method)

Parafoam Panelglue NBS

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

4,4'-methylenediphenyl diisocyanate, isomers and homologues (9016-87-9)	
NOEC (chronic)	≥ 10000 mg/l Daphnia magna (Big water flea)
NOEC chronic crustacea	≥ 10 mg/l (OECD 211 method)
glycerol, propoxylated (25791-96-2)	
LC50 - Fish [1]	> 1000 mg/l
EC50 - Crustacea [1]	> 100 mg/l
ErC50 algae	> 100 mg/l
LOEC (chronic)	> 10 mg/l
NOEC chronic crustacea	> 10 mg/l (OECD 211 method)
dimethyl ether (115-10-6)	
LC50 - Fish [1]	> 4,1 g/l Test organisms (species): Poecilia reticulata
EC50 - Crustacea [1]	> 4,4 g/l Test organisms (species): Daphnia magna
EC50 96h - Algae [1]	154,917 mg/l Test organisms (species): other:green algae
NOEC (acute)	≥ 4000 mg/l Daphnia Magna
NOEC (chronic)	≥ 4000 mg/l Poecilia reticulata
reaction products of phosphoryl trichloride and 2-methyloxirane (1244733-77-4)	
LC50 - Fish [1]	100 mg/l Brachydanio rerio (zebra-fish)
EC50 - Crustacea [1]	131 mg/l Daphnia magna (Water flea)
EC50 72h - Algae [1]	82 mg/l Pseudokirchneriella subcapitata
NOEC chronic crustacea	32 mg/l
ethane-1,2-diol (107-21-1)	
LC50 - Fish [1]	53000 mg/l Pimephales promelas
EC50 - Crustacea [1]	51000 mg/l Daphnia magna (Water flea)
EC50 72h - Algae [1]	24000 mg/l

12.2. Persistence and degradability

4,4'-methylenediphenyl diisocyanate, isomers and homologues (9016-87-9)	
Persistence and degradability	Not easily bio-degradable (according to OECD-criteria).
Biodegradation	28d 0 %
glycerol, propoxylated (25791-96-2)	
Persistence and degradability	Not readily biodegradable.
Biodegradation	38 - 40 % (OECD 301B method)
isobutane (75-28-5)	
Persistence and degradability	Readily biodegradable.
propane (74-98-6)	
Persistence and degradability	Readily biodegradable.

Parafoam Panelglue NBS

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

reaction products of phosphoryl trichloride and 2-methyloxirane (1244733-77-4)	
Biodegradation	14 %
ethane-1,2-diol (107-21-1)	
Biochemical oxygen demand (BOD)	0,47 g O ₂ /g substance
Chemical oxygen demand (COD)	1,29 g O ₂ /g substance
Biodegradation	90 %

12.3. Bioaccumulative potential

4,4'-methylenediphenyl diisocyanate, isomers and homologues (9016-87-9)	
BCF - Fish [1]	200
Bioaccumulative potential	highly bioaccumulative.
glycerol, propoxylated (25791-96-2)	
Partition coefficient n-octanol/water (Log Pow)	-0,73 at 25 °C
isobutane (75-28-5)	
Bioconcentration factor (BCF REACH)	27
Partition coefficient n-octanol/water (Log Pow)	2,76
Bioaccumulative potential	Low bioaccumulation potential.
propane (74-98-6)	
Bioconcentration factor (BCF REACH)	13
Partition coefficient n-octanol/water (Log Pow)	2,86
Bioaccumulative potential	Low bioaccumulation potential.
reaction products of phosphoryl trichloride and 2-methyloxirane (1244733-77-4)	
BCF - Fish [1]	8
Bioconcentration factor (BCF REACH)	8
Partition coefficient n-octanol/water (Log Pow)	3,17
ethane-1,2-diol (107-21-1)	
Bioconcentration factor (BCF REACH)	10
Partition coefficient n-octanol/water (Log Pow)	-1,36

12.4. Mobility in soil

glycerol, propoxylated (25791-96-2)	
Surface tension	53 mN/m at 20 °C
dimethyl ether (115-10-6)	
Surface tension	0,001136 N/m
isobutane (75-28-5)	
Surface tension	0,00984 N/m

Parafoam Panelglue NBS

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

isobutane (75-28-5)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1,54
Ecology - soil	Very mobile.
propane (74-98-6)	
Surface tension	0,00702 N/m
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2,66 7.02E-3 N/m (25°C)
Ecology - soil	medium.
reaction products of phosphoryl trichloride and 2-methyloxirane (1244733-77-4)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2,51
ethane-1,2-diol (107-21-1)	
Surface tension	0,04989 N/m
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0

12.5. Results of PBT and vPvB assessment

Parafoam Panelglue NBS

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

Other adverse effects : No supplementary information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)	: Disposal must be done according to official regulations.
Waste treatment methods	: Handle uncleaned empty containers as full ones.
European List of Waste (LoW) code	: 16 05 04* - gases in pressure containers (including halons) containing dangerous substances

Parafoam Panelglue NBS

Safety Data Sheet






according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

HP Code

: HP3 - "Flammable:"
 - flammable liquid waste: liquid waste having a flash point below 60 °C or waste gas oil, diesel and light heating oils having a flash point > 55 °C and ≤ 75 °C;
 - flammable pyrophoric liquid and solid waste: solid or liquid waste which, even in small quantities, is liable to ignite within five minutes after coming into contact with air;
 - flammable solid waste: solid waste which is readily combustible or may cause or contribute to fire through friction;
 - flammable gaseous waste: gaseous waste which is flammable in air at 20 °C and a standard pressure of 101.3 kPa;
 - water reactive waste: waste which, in contact with water, emits flammable gases in dangerous quantities;
 - other flammable waste: flammable aerosols, flammable self-heating waste, flammable organic peroxides and flammable self-reactive waste.
 HP5 - "Specific Target Organ Toxicity (STOT)/Aspiration Toxicity:" waste which can cause specific target organ toxicity either from a single or repeated exposure, or which cause acute toxic effects following aspiration.
 HP6 - "Acute Toxicity:" waste which can cause acute toxic effects following oral or dermal administration, or inhalation exposure.
 HP7 - "Carcinogenic:" waste which induces cancer or increases its incidence
 HP4 - "Irritant – skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye.
 HP13 - "Sensitising:" waste which contains one or more substances known to cause sensitising effects to the skin or the respiratory organs.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
UN 1950	UN 1950	UN 1950	UN 1950	UN 1950
14.2. UN proper shipping name				
AEROSOLS	AEROSOLS	Aerosols, flammable	AEROSOLS	AEROSOLS
Transport document description				
UN 1950 AEROSOLS, 2.1, (D)	UN 1950 AEROSOLS, 2.1	UN 1950 Aerosols, flammable, 2.1	UN 1950 AEROSOLS, 2.1	UN 1950 AEROSOLS, 2.1
14.3. Transport hazard class(es)				
2.1	2.1	2.1	2.1	2.1
				
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No
No supplementary information available				

Parafoam Panelglue NBS

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

14.6. Special precautions for user

Overland transport

Classification code (ADR)	: 5F
Special provisions (ADR)	: 190, 327, 344, 625
Limited quantities (ADR)	: 1I
Excepted quantities (ADR)	: E0
Packing instructions (ADR)	: P207
Special packing provisions (ADR)	: PP87, RR6, L2
Mixed packing provisions (ADR)	: MP9
Transport category (ADR)	: 2
Special provisions for carriage - Packages (ADR)	: V14
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV9, CV12
Special provisions for carriage - Operation (ADR)	: S2
Tunnel restriction code (ADR)	: D

Transport by sea

Special provisions (IMDG)	: 63, 190, 277, 327, 344, 959
Limited quantities (IMDG)	: SP277
Excepted quantities (IMDG)	: E0
Packing instructions (IMDG)	: P207, LP02
Special packing provisions (IMDG)	: PP87, L2
EmS-No. (Fire)	: F-D
EmS-No. (Spillage)	: S-U
Stowage category (IMDG)	: None
Stowage and handling (IMDG)	: SW1, SW22
Segregation (IMDG)	: SG69

Air transport

PCA Excepted quantities (IATA)	: E0
PCA Limited quantities (IATA)	: Y203
PCA limited quantity max net quantity (IATA)	: 30kgG
PCA packing instructions (IATA)	: 203
PCA max net quantity (IATA)	: 75kg
CAO packing instructions (IATA)	: 203
CAO max net quantity (IATA)	: 150kg
Special provisions (IATA)	: A145, A167, A802
ERG code (IATA)	: 10L

Inland waterway transport

Classification code (ADN)	: 5F
Special provisions (ADN)	: 190, 327, 344, 625
Limited quantities (ADN)	: 1 L
Excepted quantities (ADN)	: E0
Equipment required (ADN)	: PP, EX, A
Ventilation (ADN)	: VE01, VE04
Number of blue cones/lights (ADN)	: 1

Rail transport

Special provisions (RID)	: 190, 327, 344, 625
Limited quantities (RID)	: 1L
Excepted quantities (RID)	: E0
Packing instructions (RID)	: P207, LP200
Special packing provisions (RID)	: PP87, RR6, L2
Mixed packing provisions (RID)	: MP9

Parafoam Panelglue NBS

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Transport category (RID) : 2
Special provisions for carriage – Packages (RID) : W14
Special provisions for carriage - Loading, unloading and handling (RID) : CW9, CW12
Colis express (express parcels) (RID) : CE2
Hazard identification number (RID) : 23

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

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)

Reference code	Applicable on	Entry title or description
74.	Parafoam Panelglue NBS	Diisocyanates, O = C=N-R-N = C=O, with R an aliphatic or aromatic hydrocarbon unit of unspecified length

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

VOC Directive (2004/42)

VOC content : 16,75 %

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out for the substance or the mixture by the supplier

Parafoam Panelglue NBS

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

SECTION 16: Other information

Indication of changes:

Composition/information on ingredients. Hazards identification. Regulatory information.

Abbreviations and acronyms:	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
CAS-No.	Chemical Abstract Service number
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DNEL	Derived-No Effect Level
EC50	Median effective concentration
EN	European Standard
EC-No.	European Community number
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEL	No-Observed Adverse Effect Level
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
vPvB	Very Persistent and Very Bioaccumulative
DMEL	Derived Minimal Effect level
OEL	Occupational Exposure Limit
NOEC	No-Observed Effect Concentration
STP	Sewage treatment plant

Data sources

: ECHA (European Chemicals Agency). REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. For more information regarding the use of this product, please refer to our technical information or contact the sales department in your region.

Training advice

: Normal use of this product shall imply use in accordance with the instructions on the packaging.

Parafoam Panelglue NBS

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Full text of H- and EUH-statements:	
Acute Tox. 4 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aerosol 1	Aerosol, Category 1
Carc. 2	Carcinogenicity, Category 2
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Gas 1A	Flammable gases, Category 1A
H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.
H302	Harmful if swallowed.
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.
Press. Gas (Liq.)	Gases under pressure : Liquefied gas
Resp. Sens. 1	Respiratory sensitisation, Category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Aerosol 1	H222;H229	On basis of test data
Acute Tox. 4 (Oral)	H302	Calculation method
Skin Irrit. 2	H315	Calculation method
Eye Irrit. 2	H319	Calculation method
Resp. Sens. 1	H334	Calculation method
Skin Sens. 1	H317	Calculation method
Carc. 2	H351	Calculation method
STOT SE 3	H335	Calculation method
STOT RE 2	H373	Calculation method

Parafoam Panelglue NBS

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

SDS EU DL Chemicals

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.