

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 16.01.2023

Version 2

Revision: 16.01.2023

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

1.1 Product identifier

Trade name: Hermeticfoam (B2)

UFI: 2FS2-M0JS-Y00A-S92C

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

Application of the substance / mixture Polyurethane-sealant

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

ROTHO BLAAS SRL

Via dell'Adige 2/1 - I - 39040 Cortaccia (BZ)

Tel.: +39 0471818400

e-mail: reach@rothoblaas.com

1.4 Emergency telephone number

Call local emergency information.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin Sens. 1 H317 May cause an allergic skin reaction.

Carc. 2 H351 Suspected of causing cancer.

STOT SE 3 H335 May cause respiratory irritation.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms



GHS02 GHS07 GHS08

Signal word Danger

Hazard-determining components of labelling:

diphenylmethanediisocyanate, isomers and homologues

Hazard statements

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

H351 Suspected of causing cancer.

H335 May cause respiratory irritation.

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H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

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.
P261 Avoid breathing vapours/spray.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves, eye protection.
P302+P352 IF ON SKIN: Wash with plenty of water and soap.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P314 Get medical advice/attention if you feel unwell.
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 hazardous or special waste collection point.

Additional information:

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

2.3 Other hazards
Results of PBT and vPvB assessment

This mixture does not meet the PBT- or vPvB-criteria according to Regulation (EC) No 1907/2006.

Determination of endocrine-disrupting properties

This product does not contain substances with endocrine disrupting properties.

SECTION 3: Composition/information on ingredients

3.2 Mixture
Description: Prepolymer (mixed polyol and polymeric isocyanate) with freon-free low-boiling propellant

Dangerous components:

CAS: 9016-87-9 EC number: 618-498-9	diphenylmethanediisocyanate, isomers and homologues Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335, EUH204 Specific concentration limits: Eye Irrit. 2; H319: C ≥ 5 % Skin Irrit. 2; H315: C ≥ 5 % Resp. Sens. 1; H334: C ≥ 0.1 % STOT SE 3; H335: C ≥ 5 %	30 - 60%
CAS: 1244733-77-4 EC number: 807-935-0 Reg.No.: 01-2119486772-26	reaction products of phosphoryl trichloride and 2-methyloxirane Acute Tox. 4, H302	< 20%
CAS: 75-28-5 EINECS: 200-857-2 Index number: 601-004-00-0 Reg.No.: 01-2119485395-27	isobutane (< 0.1% butadiene) Flam. Gas 1A, H220; Press. Gas (Comp.), H280	5 - 10%

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CAS: 115-10-6 EINECS: 204-065-8 Index number: 603-019-00-8 Reg.No.: 01-2119472128-37	dimethyl ether Flam. Gas 1A, H220; Press. Gas (Comp.), H280	5 - 10%
CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5 Reg.No.: 1-2119486944-21	propane Flam. Gas 1A, H220; Press. Gas (Comp.), H280	1 - 5%
CAS: 108-32-7 EINECS: 203-572-1 Index number: 607-194-00-1	propylene carbonate Eye Irrit. 2, H319	1 - 3%

Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:

In case of accident or if you feel unwell, seek medical advice (show the label where possible).

In case of unconsciousness place patient stably in side position for transportation.

After inhalation: Supply fresh air, keep warm and at rest. If symptoms persist seek medical advice.

After skin contact:

Remove contaminated clothes. Rinse skin thoroughly with water and soap. In case of irritation seek medical treatment.

After eye contact:

Remove contact lenses, if present and easy to do. Rinse opened eyes for at least 15 minutes with plenty of water. If irritation persists seek medical advice.

After swallowing:

Not anticipated as this is an aerosol spray.

Keep affected person warm and at rest.

Seek immediate medical advice in case of complaints.

4.2 Most important symptoms and effects, both acute and delayed

MDI:

Inhalation: irritation of the respiratory tract, cough, dyspnea, breathing difficulties, asthma

Skin contact: irritation, erythema

Eye contact: pain or irritation, lacrimation, redness

Ingestion: irritation of the gastrointestinal tract

4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents: CO₂, extinguishing powder, sand, soil

For safety reasons unsuitable extinguishing agents: Water

5.2 Special hazards arising from the substance or mixture

Product contains highly flammable vapours and liquids. Formation of smoke in case of fire; carbon oxides, soot, hydrocarbons and aldehydes can be released due to incomplete combustion and thermolysis.

Risk of bursting due to heat. Formation of explosive air/vapour mixtures are possible. Vapors are heavier than air.

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By distribution at ground level flash back to distant ignition sources is possible.

5.3 Advice for firefighters

Protective equipment:

In case of fire wear self-contained respiratory equipment and full protective suit.

Do not inhale explosion gases or combustion gases.

Additional information

Cool endangered receptacles with water spray. Contain runoff to prevent entry into water or drainage systems.

Dispose of fire debris and contaminated firefighting water according to the regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Please notice instructions for person-related safety precautions, wear protective equipment (see 8.)

Avoid inhalation and contact with skin and eyes.

Do not breathe vapour/spray.

Keep unprotected persons away. Ensure adequate ventilation.

Keep away from ignition sources.

6.2 Environmental precautions:

Do not allow to enter sewers, surface or ground water.

Advise water authority in case of seepage into water course or sewage system.

6.3 Methods and material for containment and cleaning up:

Cover with sand or damp soil.

Allow to solidify and remove mechanically.

Dispose contaminated material as waste according to item 13.

Remove residues using PU foam cleaner.

Additional information: Material automatically cures when exposed to air.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

While handling pay attention to the usual precaution for chemicals.

Comply with instructions for use.

Avoid any contact with skin, eyes and clothes.

Do not breathe gas/vapours/spray.

Provide good ventilation/exhaustion at the workplace.

Wash hands before break and at the end of work.

Information about fire - and explosion protection:



Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights.

Do not pierce or burn, even after use.

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Vapours are heavier than air. They can spread along the ground and form mixtures that are explosive with air. Do not spray on an open flame or glowing objects.

7.2 Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles:

Store in cool, dry place in tightly closed original containers.

Storage regulations for pressurized gas receptacles must be observed.

Suitable material for receptacles: FE (40) or ALU (41)

Information about storage in one common storage facility:

Do not store food, beverages and animal feeding stuff in the storage area.

Further information about storage conditions:

Keep out of the reach of children and domestic animals.

Protect from heat and direct sunlight.

7.3 Specific end use(s) Sealant

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

CAS: 9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

MAK (Austria)	Short-term value: 0.1 mg/m ³ , 0.01 ppm; Long-term value: 0.05 mg/m ³ , 0.005 ppm
	Group entry diphenylmethanediisocyanate

AGW (Germany)	Long-term value: 0.05 E mg/m ³ ; 1;=2=(I);DFG, H, Sah, Y, 12
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CAS: 75-28-5 isobutane (< 0.1% butadiene)

MAK (Austria)	Short-term value: 3800 mg/m ³ , 1600 ppm; Long-term value: 1900 mg/m ³ , 800 ppm
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AGW (Germany)	Long-term value: 2400 mg/m ³ , 1000 ppm; 4(II);DFG
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CAS: 115-10-6 dimethyl ether

IOELV (EU)	Long-term value: 1920 mg/m ³ , 1000 ppm
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MAK (Austria)	Short-term value: 3820 mg/m ³ , 2000 ppm; Long-term value: 1910 mg/m ³ , 1000 ppm
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AGW (Germany)	Long-term value: 1900 mg/m ³ , 1000 ppm; 8(II);DFG, EU
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CAS: 74-98-6 propane

MAK (Austria)	Short-term value: 3600 mg/m ³ , 2000 ppm; Long-term value: 1800 mg/m ³ , 1000 ppm
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AGW (Germany)	Long-term value: 1800 mg/m ³ , 1000 ppm; 4(II);DFG
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CAS: 108-32-7 propylene carbonate

AGW (Germany)	Long-term value: 8.5 mg/m ³ , 2 ppm; 1(I);DFG, Y, 11
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Regulatory information

IOELV (EU): (EU) 2019/1831

MAK (Austria): GKV 2020, 156. Verordnung, 09.04.2021, Teil II

AGW (Germany): TRGS 900

DNELs:

methylenediphenyl diisocyanate (CAS 101-68-8):

worker, short-term exposure - local and systemic effects, inhalation 0.1 mg/m³

worker, long-term exposure - local and systemic effects, inhalation 0.05 mg/m³

worker, short-term exposure - local effects, dermal 28.7 mg/cm²

worker, short-term exposure - systemic effects, dermal 50 mg/kg bw/day

consumer, short-term exposure - systemic effects, oral 20 mg/kg bw/day

consumer, short-term exposure - local and systemic effects, inhalation 0.05 mg/m³

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Trade name: PC7_HW20220421_Weichzellschaum_B2_SPB2-G23-FL

consumer, long-term exposure - local and systemic effects, inhalation 0.025 mg/m³
 consumer, short-term exposure - local effects, dermal 17.2 mg/cm²
 consumer, short-term exposure - systemic effects, dermal 25 mg/kg bw/day

reaction products of phosphoryl trichloride and 2-methyloxirane (CAS 1244733-77-4):
 worker, short-term exposure - systemic effects, inhalation 22.6 mg/m³
 worker, long-term exposure - systemic effects, dermal 8.2 mg/cm²
 consumer, short-term exposure - systemic effects, oral 2 mg/kg bw/day
 consumer, long-term exposure - systemic effects, oral 0.52 mg/kg bw/day
 consumer, long-term exposure - systemic effects, inhalation 1.45 mg/m³
 consumer, long-term exposure - systemic effects, dermal 1.04 mg/kg bw/day

PNECs:

methylenediphenyl diisocyanate (CAS 101-68-8):

freshwater 1 mg/l, marine water 0.1 mg/l;

intermittent releases 10 mg/l; STP 1 mg/l; soil 1 mg/kg

reaction products of phosphoryl trichloride and 2-methyloxirane (CAS 1244733-77-4):

freshwater 0.32 mg/l, marine water 0.032 mg/l

sediment freshwater 11.5 mg/kg, marine water 11.15 mg/kg

soil 0.34 mg/kg, STP 19.1 mg/l, secondary poisoning 11.6 mg/kg

Ingredients with biological limit values:

CAS: 9016-87-9 diphenylmethanediisocyanate, isomers and homologues

BGW (Germany)	10 µg/g creatinine Medium: urine Sampling time: At the end of the period of exposure Parameter: 4,4'-diaminodiphenylmethane
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Regulatory information BGW (Germany): TRGS 903

8.2 Exposure controls

Appropriate engineering controls Provide good ventilation or exhaust at work.

Individual protection measures, such as personal protective equipment

General protective and hygienic measures:

Avoid unnecessary contact with the product. Do not eat, drink or smoke at workplace and keep it tidy.

Avoid inhalation and contact with skin and eyes.

Remove contaminated clothing immediately and wash carefully before reuse.

After use, ensure thorough cleansing of the skin.

Pregnant women should strictly avoid inhalation or skin contact.

Respiratory protection:

Use protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) in case of insufficient ventilation.

Hand protection



Chemical resistant gloves (EN 374)

Dispose of when contaminated inside, when perforated or when contamination outside cannot be removed.

Material of gloves

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Butyl rubber (thickness ≥ 0.5 mm), fluorinated elastomer (thickness ≥ 0.4 mm), chlorinated polyethylene, ethylene

vinyl alcohol (EVOH), neoprene (thickness ≥ 0.5 mm), nitrile/butadiene rubber (NBR, thickness ≥ 0.35 mm),

polyvinyl chloride (PVC)

Rate of permeability: ≥ 480 minutes

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Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye/face protection


Safety glasses (EN 166)

Body protection

Protective work clothing

Protective clothing should be professionally laundered regularly.

Environmental exposure controls

Do not allow to enter sewers or surface water. Advise water authority if spillage has entered water course or drainage system.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form:	Liquid in aerosol containers
Colour:	According to product specification
Odour:	Not determined
Odour threshold:	Not applicable.
Melting point/freezing point:	< 0 °C (MDI, ISO 3016)
Boiling point or initial boiling point and boiling range:	Not applicable.
Flammability:	Extremely flammable.
Lower and upper explosion limit:	
Lower:	1.5 Vol % (propellant)
Upper:	16 Vol% (propellant)
Flash point:	> 200 °C (MDI, DIN 53171)
Ignition temperature:	> 350 °C (propellant) > 500 °C (MDI, DIN 51794)
Decomposition temperature:	Not determined.
pH:	No data available
Viscosity	
dynamic:	≥ 200 mPas (MDI, DIN 53019, 20 °C)
Solubility	
water:	Insoluble; reacts with water
organic solvents:	Soluble before curing
Partition coefficient, n-octanol/water:	Not determined
Vapour pressure:	< 0.7 mPa (propellant, 20 °C) < 0,00001 hPa (MDI)
Density at 20 °C:	1 g/cm ³
Relative gas density	No data available.

9.2 Other information

Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
VOC (EC):	0.2 kg/kg
Oxidising properties:	No data available.

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Trade name: Hermeticfoam (B2)
Information with regard to physical hazard classes

Explosives	void
Flammable gases	void
Aerosols	
Extremely flammable aerosol. Pressurised container: May burst if heated.	
Oxidising gases	void
Gases under pressure	void
Flammable liquids	void
Flammable solids	void
Self-reactive substances and mixtures	void
Pyrophoric liquids	void
Pyrophoric solids	void
Self-heating substances and mixtures	void
Substances and mixtures, which emit flammable gases in contact with water	void
Oxidising liquids	void
Oxidising solids	void
Organic peroxides	void
Corrosive to metals	void
Desensitised explosives	void

SECTION 10: Stability and reactivity

10.1 Reactivity Stable in standard stocking and use conditions.

10.2 Chemical stability Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Carbon dioxide is produced by the reaction with substances containing active oxygen, incl. water. This leads to an increase in pressure and temperature in closed containers.

10.4 Conditions to avoid

Heat, open flames, ignition sources, electrostatic charge
Heating causes rise in pressure with risk of bursting.

10.5 Incompatible materials Avoid contact with strong oxidising agents and strong acids. Reacts with water.

10.6 Hazardous decomposition products

None under normal conditions of storage and use.

In the case of fire can be formed: carbon oxides, nitrogen oxides hydrogen cyanide, toxic pyrolysis products

SECTION 11: Toxicological information

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

Acute toxicity Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:

There are no product specific data on toxicology available.

CAS: 1244733-77-4 reaction products of phosphoryl trichloride and 2-methyloxirane

oral	LOAEL/13w	52 mg/kg (rat)
	LD50	632 mg/kg (rat, female)

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Trade name: Hermeticfoam (B2)

dermal	LD50	> 2,000 mg/kg (rat)
inhalative	LC50/4h	> 4.6 mg/l (rat)

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 No data available.

Carcinogenicity Suspected of causing cancer.

Reproductive toxicity No data available.

STOT-single exposure May cause respiratory irritation.

STOT-repeated exposure May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard No data available.

11.2 Information on other hazards
Endocrine disrupting properties The product does not contain substances with endocrine disrupting properties.

Other information

Diphenylmethanediisocyanate, isomers and homologues: In case of overexposure, there is a risk of irritant effects on eyes, nose, larynx and respiratory tract independent of concentration. Later onset of symptoms is possible (breathing difficulties, cough, asthma). In hypersensitive persons, reactions may occur even at very low concentrations of isocyanate, still below the occupational exposure limits. Prolonged contact with the skin may cause dehydration and irritation.

SECTION 12: Ecological information

12.1 Toxicity
Aquatic toxicity:

For the product there are no ecotoxicological data available.

CAS: 9016-87-9 diphenylmethanediisocyanate, isomers and homologues

EC50/24h (static)	> 1000 mg/l (water flea, Daphnia magna) (OECD 202)
ErC50/72h	> 1640 mg/l (alga, Desmodesmus subspicatus) (OECD 201)
LC50/96h (static)	> 1000 mg/l (zebrafish, Danio rerio) (OECD 203)
NOEC/21d	> 10 mg/l (water flea, Daphnia magna) (OECD 202)
EC50/3h	> 100 mg/l (activated sludge) (OECD 209)

CAS: 1244733-77-4 reaction products of phosphoryl trichloride and 2-methyloxirane

LC50/96h	51 mg/l (flathead minnow, Pimephales promelas)
EC10/3h	191 mg/l (activated sludge)
EC50/48h	131 mg/l (water flea, Daphnia magna)
EC50/3h	784 mg/l (activated sludge)
EC50/72h	82 mg/l (alga, Pseudokirchneriella subcapitata)
NOEC/72h	13 mg/l (alga, Pseudokirchneriella subcapitata)

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NOEC/21d	32 mg/l (water flea, Daphnia magna)
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Additional information: Insoluble in water, the PU foam spreads on the water surface.

Earthworms:

CAS: 9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

NOEC/14d	> 1000 mg/kg soil (earthworm, Eisenia foetida) (OECD 207)
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12.2 Persistence and degradability

MDI: not readily biodegradable.

test: aerobic, inoculum: activated sludge

degradability: 0 %, 28 days (OECD Guideline 302 C)

reaction products of phosphoryl trichloride and 2-methyloxirane (TCPP):

OECD TG 302 A 95% - inherent (64 days)

OECD TG 301 E 14% - not readily degradable (28 days)

TCPP is naturally biodegradable under aerobic conditions.

However, for the purposes of risk assessment, the substance is classified as "inherently biodegradable, which does not meet the criteria".

Half-life in water: Fresh water >365 days (pH 4, pH 7, pH 9; 50 °C)

Light decomposition: 50% (0.358 days)

Biodegradability: inherent

12.3 Bioaccumulative potential

MDI: No significant accumulation in organisms, the substance hydrolyses violently in water.

bioconcentration factor (BCF): <14 (OECD Guideline 305)

(Cyprinus carpio, exposure time 42 d, concentration 0.2 mg/l)

reaction products of phosphoryl trichloride and 2-methyloxirane: low potential for bioaccumulation

octanol-water partition coefficient (log Pow): 2.68; bioconcentration factor (BCF): 0.8 - 14 days

12.4 Mobility in soil Very limited due to chemical reaction with water to form an insoluble product (PU foam).

12.5 Results of PBT and vPvB assessment Not applicable.

12.6 Endocrine disrupting properties For information on endocrine disrupting properties see section 11.

12.7 Other adverse effects

Isocyanate reacts with water at the interface forming CO₂ and a solid insoluble product with high melting point (polyurea). This reaction is accelerated by surfactants (e.g. detergents) or by water-soluble solvents. Previous experience shows that polyurea is inert and non-degradable.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

Do not dispose waste or remains together with domestic waste, do not empty into sink or toilet, hand over to hazardous waste disposers.

Uncleaned packaging

Recommendation:

Cans should be emptied completely and should preferably be recycled or reused in compliance with the local / national regulations. Cans not emptied completely or remains have to be disposed as hazardous waste.

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SECTION 14: Transport information

14.1 UN number or ID number
ADR, IMDG, IATA

UN1950

14.2 UN proper shipping name
ADR

1950 AEROSOLS

IMDG

AEROSOLS

IATA

AEROSOLS, flammable

14.3 Transport hazard class(es)
ADR

Class

2.5F Gases.

Label

2.1

IMDG, IATA

Class

2.1 Gases.

Label

2.1

14.4 Packing group
ADR, IMDG, IATA

void

14.5 Environmental hazards:

not applicable

14.6 Special precautions for user

Warning: Gases.

Hazard identification number (Kemler code):

-

14.7 Maritime transport in bulk according to IMO
instruments

not applicable

UN "Model Regulation":

UN 1950 AEROSOLS, 2.1

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
Seveso category P3a FLAMMABLE AEROSOLS

Restrictions according to Annex XVII of the Regulation (EC) No 1907/2006:

Persons already sensitised to diisocyanates 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.

Methylenediphenyl diisocyanate (MDI), including some specific monomers, was included in Annex XVII (entry 56) of REACH by Regulation (EC) No 552/2009.

Diisocyanates, $O = C = NR - N = C = O$, were included in Annex XVII (entry 74) of REACH by Regulation (EU) 2020/1149.

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Trade name: Hermeticfoam (B2)
Water hazard class: Water hazard class (German Regulation) 1 (self-assessment): slightly hazardous for water.

VOC (EC): 0.2 kg/kg

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Further information:

The classification of the mixture is in accordance with point 1.1.3.7, Annex I, Part 1 of the CLP Regulation.

Abbreviations and acronyms:

CLP: REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

CAS: Chemical Abstracts Service (division of the American Chemical Society)

EINECS: European Inventory of Existing Commercial Chemical Substances

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

AGW: occupational exposure limit

IOELV: indicative occupational exposure limit values (EU)

MAK: maximum concentration of a chemical substance in the workplace

LC50: lethal concentration, 50%

LD50: lethal dose, 50%

EC50: maximal effective concentration, 50%

NOEC: no observed effect concentration

OECD: Organisation for Economic Co-operation and Development

log Pow, Kow: partition coefficient (n-octanol/water)

PBT: persistent, bioaccumulative and toxic properties

vPvB: very persistent and very bioaccumulative properties

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

Flam. Gas 1A: Flammable gases – Category 1A

Aerosol 1: Aerosols – Category 1

Press. Gas (Comp.): Gases under pressure – Compressed gas

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Resp. Sens. 1: Respiratory sensitisation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

Carc. 2: Carcinogenicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Data compared to the previous version altered: -