

VBH Holding GmbH
70825 Korntal-Münchingen

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

1.1 Product identifier

greenteQ All-Season 1C Gun Foam B2
Article number: 217.274/6389 – 217.274/6391 – 217.274/6671 –
217.274/6673 – 217.274/6390 – 217.274/6392 – 217.274/6672 –
217.274/6674

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

1.2.1 Relevant uses

Building materials

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company VBH Holding GmbH
Siemensstrasse 38
70825 Korntal-Münchingen / GERMANY
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Fax +49(0) 71 50-15-315
Homepage www.vbh.de
E-mail info@vbh.de

Address enquiries to

Technical information info@vbh.de

Safety Data Sheet sdb@chemiebuero.de

1.4 Emergency telephone number

Advisory body +49 (0)89-19240 (24h) (English)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture [REGULATION (EC) No 1272/2008]

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

Carc. 2: H351 Suspected of causing cancer.

Eye Irrit. 2: H319 Causes serious eye irritation.

STOT SE 3: H335 May cause respiratory irritation.

Skin Irrit. 2: H315 Causes skin 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.

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

Acute Tox. 4: H332 Harmful if inhaled.




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2.2 Label elements

	The product is required to be labelled in accordance with regulation (EC) No 1272/2008 (CLP).	
Hazard pictograms		
		
Signal word	DANGER	
Contains:	Diphenylmethanediisocyanate, isomeres and homologues	
Hazard statements	H222 Extremely flammable aerosol. H229 Pressurised container: May burst if heated. H351 Suspected of causing cancer. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H315 Causes skin irritation. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H317 May cause an allergic skin reaction. H373 May cause damage to organs through prolonged or repeated exposure through inhalation. H332 Harmful if inhaled.	
Precautionary statements	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. P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C / 122°F. P260 Do not breathe vapours / spray. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves / protective clothing / eye protection / face protection. P201 Obtain special instructions before use. P284 In case of inadequate ventilation wear respiratory protection. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER / doctor. P308+P313 IF exposed or concerned: Get medical advice / attention. P501 Dispose of contents/container in accordance with local/national regulation.	
Special labelling	EUH204 Contains isocyanates. May produce an allergic reaction. ----- As from 24 August 2023 adequate training is required before industrial or professional use. -----	

2.3 Other hazards

Human health dangers	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.
Environmental hazards	Does not contain any PBT or vPvB substances.
Other hazards	Contains no ingredients with endocrine-disrupting properties. Further hazards were not determined with the current level of knowledge.

SECTION 3: Composition / Information on ingredients

3.1 Substances

not applicable

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3.2 Mixtures

The product is a mixture.

Range [%]	Substance
20 - <40	Diphenylmethanediisocyanate, isomeres and homologues CAS: 9016-87-9, EINECS/ELINCS: 618-498-9 GHS/CLP: Skin Irrit. 2: H315 - Skin Sens. 1: H317 - Eye Irrit. 2: H319 - Acute Tox. 4: H332 - Resp. Sens. 1: H334 - STOT SE 3: H335 - Carc. 2: H351 - STOT RE 2: H373 SCL [%]: >= 0,1: Resp. Sens. 1: H334, >= 5: Skin Irrit. 2: H315, >= 5: Eye Irrit. 2: H319, >= 5: STOT SE 3: H335
10 - <20	Reaction products of phosphoryl trichloride and 2-methyloxirane CAS: 1244733-77-4, EINECS/ELINCS: 807-935-0, Reg-No.: 01-2119486772-26-XXXX GHS/CLP: Acute Tox. 4: H302
1 - <10	Dimethyl ether CAS: 115-10-6, EINECS/ELINCS: 204-065-8, EU-INDEX: 603-019-00-8, Reg-No.: 01-2119472128-37-XXXX GHS/CLP: Flam. Gas 1: H220 - Press. Gas: H280
1 - <10	iso-Butane CAS: 75-28-5, EINECS/ELINCS: 200-857-2, EU-INDEX: 601-004-00-0 GHS/CLP: Flam. Gas 1: H220 - Press. Gas (Compressed gas): H280
1 - <5	Glycerol propoxilated CAS: 25791-96-2, EINECS/ELINCS: Polymer GHS/CLP: Acute Tox. 4: H302
1 - <10	Propane CAS: 74-98-6, EINECS/ELINCS: 200-827-9, EU-INDEX: 601-003-00-5 GHS/CLP: Flam. Gas 1: H220 - Press. Gas (Compressed gas): H280

Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.
For full text of H-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information	Remove contaminated soaked clothing immediately and dispose of safely.
Inhalation	Remove the victim into fresh air and keep him calm. In the event of symptoms seek medical treatment.
Skin contact	In case of contact with skin wash off immediately with soap and water. Consult a doctor if skin irritation persists.
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion	Consult a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

Headache
Irritant effects
Allergic reactions
Difficulty of breathing

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media	Foam, dry powder, water spray jet, carbon dioxide.
Extinguishing media that must not be used	Full water jet.

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5.2 Special hazards arising from the substance or mixture

risk of formation of toxic pyrolysis products, carbon monoxide (CO), not combusted hydrocarbons

In the event of fire the following can be released:

Hydrogen chloride (HCl).

Hydrogen cyanide (HCN).

Phosphorus oxides (POx).

Nitrogen oxides (NOx).

Bursting aerosols can be forcibly projected from a fire.

5.3 Advice for firefighters

Use self-contained breathing apparatus.

Do not inhale explosion and/or combustion gases.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

Cool containers at risk with water spray jet.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Keep away from all sources of ignition.

Ensure adequate ventilation.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

In case the product spills into drains/surface waters/groundwater, immediately inform the authorities.

6.3 Methods and material for containment and cleaning up

Take up mechanically.

Take up residues with absorbent material (e.g. sand).

Dispose of absorbed material in accordance with the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use only in well-ventilated areas.

Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking.

Vapours can form an explosive mixture with air.

Take precautionary measures against static discharges.

Use explosion-proofed equipment/fittings and non-sparking tools.

Do not eat, drink, smoke or take drugs at work.

Wash hands before breaks and after work.

Clean skin thoroughly after work, apply skin cream.

Use barrier skin cream.

Remove contaminated soaked clothing immediately and dispose of safely.

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7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.

Prevent penetration into the ground.

Do not store together with oxidizing agents.

Do not store together with acids and alkalies.

Keep container in a well-ventilated place.

Keep in a cool place, heat causes increase in pressure and risk of bursting.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C.

7.3 Specific end use(s)

See product use, SECTION 1.2

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SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

Substance
Diphenylmethanediisocyanate, isomeres and homologues
CAS: 9016-87-9, EINECS/ELINCS: 618-498-9
Long-term exposure: 0,02 mg/m ³ , as NCO, Sen
Short-term exposure (15-minute): 0,07 mg/m ³
iso-Butane (containing < 0,1 % Butadien (203-450-8))
CAS: 75-28-5, EINECS/ELINCS: 200-857-2, EU-INDEX: 601-004-00-0
Long-term exposure: 600 ppm, 1450 mg/m ³ , (Butane)
Short-term exposure (15-minute): 750 ppm, 1810 mg/m ³
Dimethyl ether
CAS: 115-10-6, EINECS/ELINCS: 204-065-8, EU-INDEX: 603-019-00-8, Reg-No.: 01-2119472128-37-XXXX
Long-term exposure: 400 ppm, 766 mg/m ³
Short-term exposure (15-minute): 500 ppm, 958 mg/m ³

Ingredients with occupational exposure limits to be monitored (EU)

Substance / EC LIMIT VALUES
Dimethyl ether
CAS: 115-10-6, EINECS/ELINCS: 204-065-8, EU-INDEX: 603-019-00-8, Reg-No.: 01-2119472128-37-XXXX
Eight hours: 1000 ppm, 1920 mg/m ³

DNEL

Substance
Dimethyl ether, CAS: 115-10-6
Industrial, inhalative, Long-term - systemic effects, 1894 mg/m ³
general population, inhalative, Long-term - systemic effects, 471 mg/m ³
Reaction products of phosphoryl trichloride and 2-methyloxirane, CAS: 1244733-77-4
Industrial, dermal, Long-term - systemic effects, 2,91 mg/kg bw/day
Industrial, inhalative, Acute - systemic effects, 22,6 mg/m ³
Industrial, inhalative, Long-term - systemic effects, 8,2 mg/m ³
general population, oral, Acute - systemic effects, 2 mg/kg bw/day
general population, oral, Long-term - systemic effects, 0,52 mg/kg bw/day
general population, dermal, Long-term - systemic effects, 1,04 mg/kg bw/day
general population, inhalative, Acute - systemic effects, 5,6 mg/m ³
general population, inhalative, Long-term - systemic effects, 1,45 mg/m ³

PNEC

Substance
Dimethyl ether, CAS: 115-10-6
sewage treatment plants (STP), 160 mg/L
sediment (seawater), 0,0681 mg/kg dw
sediment (freshwater), 0,681 mg/kg dw
soil, 0,045 mg/kg dw
seawater, 0,016 mg/l
freshwater, 0,155 mg/l

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Reaction products of phosphoryl trichloride and 2-methyloxirane, CAS: 1244733-77-4
oral (food), 11,6 mg/kg food
soil, 0,34 mg/kg soil dw
sediment (seawater), 1,15 mg/kg sediment dw
sediment (freshwater), 11,5 mg/kg sediment dw
sewage treatment plants (STP), 19,1mg/L
seawater, 0,032 mg/L
freshwater, 0,32 mg/L

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation. Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances.
Eye protection	Safety glasses. (EN 166:2001)
Hand protection	0,7 mm Butyl rubber, >480 min (EN 374-1/-2/-3). The details concerned are recommendations. Please contact the glove supplier for further information.
Skin protection	Light protective clothing.
Other	Avoid contact with eyes and skin. Do not inhale vapours. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier.
Respiratory protection	In the event of occupational exposure limits being exceeded or of inadequate ventilation: wear appropriate respiratory protection. Short term: filter apparatus, combination filter A-P2. (DIN EN 14387)
Thermal hazards	No information available.
Delimitation and monitoring of the environmental exposition	Protect the environment by applying appropriate control measures to prevent or limit emissions.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	aerosol
Color	various
Odor	characteristic
Odour threshold	No information available.
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	not applicable
Flash point [°C]	not applicable
Flammability (solid, gas) [°C]	not applicable
Lower explosion limit	No information available.
Upper explosion limit	No information available.
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	not applicable
Density [g/cm ³]	0,981
Relative density	0,981
Bulk density [kg/m ³]	not applicable
Solubility in water	reacts with water
Solubility other solvents	No information available.
Partition coefficient [n-octanol/water]	No information available.
Kinematic viscosity	not applicable
Relative vapour density	not applicable
Evaporation speed	not applicable
Melting point [°C]	not applicable
Auto-ignition temperature	not applicable
Decomposition temperature [°C]	not applicable
Particle characteristics	No information available.

9.2 Other information

No information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

See SECTION 10.3.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Because of the high vapour pressure, containers are liable to burst if temperature rises.
Formation of explosive gas/air mixtures.

10.4 Conditions to avoid

See SECTION 7.2.
Strong heating.

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10.5 Incompatible materials

Strong acids.
Reactions with alkalies (lyes).

10.6 Hazardous decomposition products

No hazardous decomposition products known.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity

Product
ATE-mix, oral, Rat, > 2000 mg/kg
Substance
Diphenylmethanediisocyanate, isomeres and homologues, CAS: 9016-87-9
LD50, oral, Rat, > 10000 mg/kg (OECD 401)
Glycerol propoxilated, CAS: 25791-96-2
LD50, oral, Rat, 1000 - 2000 mg/kg
Reaction products of phosphoryl trichloride and 2-methyloxirane, CAS: 1244733-77-4
LD50, oral, Rat, > 500 -2000 mg/kg

Acute dermal toxicity

Product
dermal, Based on the available information, the classification criteria are not fulfilled.
Substance
Diphenylmethanediisocyanate, isomeres and homologues, CAS: 9016-87-9
LD50, dermal, Rabbit, > 9400 mg/kg (OECD 402)
Reaction products of phosphoryl trichloride and 2-methyloxirane, CAS: 1244733-77-4
LD50, dermal, Rat, > 2000 mg/kg OECD,

Acute inhalational toxicity

Product
ATE-mix, inhalation (vapour), Rat, 10 - <20 mg/l
Substance
Diphenylmethanediisocyanate, isomeres and homologues, CAS: 9016-87-9
LC50, inhalativ (mist), Rat, 0,31 mg/l/4h (OECD 403)
NOAEL, inhalative, Rat, 0,2 mg/m ³ (OECD 453)
LOAEL, inhalative, Rat, 1 mg/m ³ (OECD 453)
ATE, inhalativ (mist), 1,5 mg/l
Dimethyl ether, CAS: 115-10-6
LC50, inhalative, Rat, 164000 ppm (4 h)
iso-Butane, CAS: 75-28-5
LC50, inhalative, Rat, 570000 ppm (IUCLID)
Propane, CAS: 74-98-6
LC50, inhalative, Rat, 658 mg/L (IUCLID)
Reaction products of phosphoryl trichloride and 2-methyloxirane, CAS: 1244733-77-4
LC0, inhalative, Rat, > 7 mg/l 4h OECD 403

Serious eye damage/irritation

Based on the available information, the classification criteria are fulfilled.
Irritant
Calculation method [RL (EC) No. 1272/2008 Annex I 1.1.3.7]

Substance
Reaction products of phosphoryl trichloride and 2-methyloxirane, CAS: 1244733-77-4

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Rabbit, OECD 405, non-irritating

Skin corrosion/irritation Based on the available information, the classification criteria are fulfilled.
Irritant
Calculation method [RL (EC) No. 1272/2008 Annex I 1.1.3.7]

Substance

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

Rabbit, OECD 404, non-irritating

Respiratory or skin sensitisation Based on the available information, the classification criteria are fulfilled.
May cause an allergic skin reaction.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Calculation method [RL (EC) No. 1272/2008 Annex I 1.1.3.7]

Substance

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

mouse, in vivo (LLNA), OECD 429, non-sensitizing

Specific target organ toxicity — single exposure Based on the available information, the classification criteria are fulfilled.
May cause respiratory irritation.
Calculation method [RL (EC) No. 1272/2008 Annex I 1.1.3.7]

Specific target organ toxicity — repeated exposure Based on the available information, the classification criteria are fulfilled.
May cause damage to organs through prolonged or repeated exposure through inhalation.
Calculation method [RL (EC) No. 1272/2008 Annex I 1.1.3.7]

Mutagenicity Based on the available information, the classification criteria are not fulfilled.

Reproduction toxicity Based on the available information, the classification criteria are not fulfilled.

Substance

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

NOAEL, oral, Rat, 99 mg/kg bw/d (Effect on fertility), OECD 416, adverse effect observed

Carcinogenicity Based on the available information, the classification criteria are fulfilled.
Suspected of causing cancer.
Calculation method

Aspiration hazard Based on the available information, the classification criteria are not fulfilled.

General remarks

The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials. Toxicological data of complete product are not available.

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SECTION 12: Ecological information

12.1 Toxicity

Product
Based on the available information, the classification criteria are not fulfilled.
Substance
Diphenylmethanediisocyanate, isomeres and homologues, CAS: 9016-87-9
LC50, (96h), Danio rerio, > 1000 mg/l (OECD 203)
EC50, (3h), Bacteria, > 100 mg/l (OECD 209)
EC50, (24h), Daphnia magna, > 1000 mg/l (OECD 202)
NOEC, (21d), Daphnia magna, > 10 mg/l (OECD 202)
ErC50, (72h), Scenedesmus subspicatus, > 1640 mg/l (OECD 201)
Dimethyl ether, CAS: 115-10-6
LC50, (96h), Poecilia reticulata, > 4000 mg/l
EC50, (48h), Daphnia magna, > 4000 mg/l
EC50, (96h), Pseudokirchneriella subcapitata, 154,917 mg/l
Reaction products of phosphoryl trichloride and 2-methyloxirane, CAS: 1244733-77-4
LC50, (96h), Pimephales promelas, 21 mg/l
LC50, (96h), Danio rerio, 56,2 mg/l
EC50, (72h), Pseudokirchneriella subcapitata, 82 mg/l OECD 201
EC50, (48h), Daphnia magna, 131 mg/l
NOEC, (21d), Daphnia magna, 32 mg/l OECD 202
NOEC, (72h), Pseudokirchneriella subcapitata, 13 mg/l OECD 201

12.2 Persistence and degradability

Behaviour in environment compartments	No information available.
Behaviour in sewage plant	No information available.
Biological degradability	The product is not readily biodegradable.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

12.6 Endocrine disrupting properties

Does not contain a relevant substance that meets the classification criteria.

12.7 Other adverse effects

The product contains organically bound halogen in accordance with the formulation.
The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.
Ecotoxicological data are not available.
Do not discharge product unmonitored into the environment.

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

Dispose of as hazardous waste.
Coordinate disposal with the disposal contractor/authorities if necessary.

Waste no. (recommended)

160504* gases in pressure containers (including halons) containing dangerous substances
080501*

Contaminated packaging

Dispose full / partially emptied cartridges as hazardous waste in accordance with official regulations.

Waste no. (recommended)

150110* packaging containing residues of or contaminated by hazardous substances

SECTION 14: Transport information

14.1 UN number or ID number

Transport by land according to ADR/RID 1950

Inland navigation (ADN) 1950

Marine transport in accordance with IMDG 1950

Air transport in accordance with IATA 1950


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14.2 UN proper shipping name

Transport by land according to ADR/RID Aerosols
- Classification Code 5F
- Label 
- ADR LQ 1 I
- ADR 1.1.3.6 (8.6) Transport category (tunnel restriction code) 2 (D)

Inland navigation (ADN) Aerosols
- Classification Code 5F
- Label 

Marine transport in accordance with IMDG Aerosols
- EMS F-D, S-U
- Label 
- IMDG LQ 1 I

Air transport in accordance with IATA Aerosols, flammable
- Label 

14.3 Transport hazard class(es)

Transport by land according to ADR/RID 2

Inland navigation (ADN) 2

Marine transport in accordance with IMDG 2.1

Air transport in accordance with IATA 2.1

14.4 Packing group

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

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14.5 Environmental hazards

Transport by land according to ADR/RID no

Inland navigation (ADN) no

Marine transport in accordance with IMDG no

Air transport in accordance with IATA no

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Maritime transport in bulk according to IMO instruments

No information available.

SECTION 15: Regulatory information

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

EEC-REGULATIONS 2008/98/EC 2000/532/EC; 2010/75/EU; 2004/42/EC; (EC) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EEC ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 517/2014

TRANSPORT-REGULATIONS ADR (2021); IMDG-Code (2021, 40. Amdt.); IATA-DGR (2021)

NATIONAL REGULATIONS (GB): EH40/2005 Workplace exposure limits (Second edition, published December 2011).

- Observe employment restrictions for people Observe employment restrictions for young people.
Observe employment restrictions for mothers-to-be and nursing mothers.
As from 24 August 2023: The employer or self-employed ensures that industrial or professional user(s) have successfully completed training on the safe use of diisocyanates prior to the use of the substance(s) or mixture(s).

- VOC (2010/75/CE) < 20,76 % (213,92 g/l)

15.2 Chemical safety assessment

not applicable

SECTION 16: Other information

16.1 Hazard statements (SECTION 3)

H302 Harmful if swallowed.
H280 Contains gas under pressure; may explode if heated.
H220 Extremely flammable gas.

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

H351 Suspected of causing cancer.

H335 May cause respiratory irritation.

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

H332 Harmful if inhaled.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H315 Causes skin irritation.

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16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
ATE = acute toxicity estimate
CAS = Chemical Abstracts Service
CLP = Classification, Labelling and Packaging
DMEL = Derived Minimum Effect Level
DNEL = Derived No Effect Level
EC50 = Median effective concentration
ECB = European Chemicals Bureau
EEC = European Economic Community
EINECS = European Inventory of Existing Commercial Chemical Substances
EL50 = Median effective loading
ELINCS = European List of Notified Chemical Substances
EmS = Emergency Schedules
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IC50 = Inhibition concentration, 50%
IMDG = International Maritime Code for Dangerous Goods
IUCLID = International Uniform Chemical Information Database
IVIS = In vitro irritation score
LC50 = Lethal concentration, 50%
LD50 = Median lethal dose
LC0 = lethal concentration, 0%
LOAEL = lowest-observed-adverse-effect level
LL50 = Median lethal loading
LQ = Limited Quantities
MARPOL = International Convention for the Prevention of Marine Pollution from Ships
NOAEL = No Observed Adverse Effect Level
NOEC = No Observed Effect Concentration
PBT = Persistent, Bioaccumulative and Toxic substance
PNEC = Predicted No-Effect Concentration
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
STP = Sewage Treatment Plant
TLV@TWA = Threshold limit value – time-weighted average
TLV@STEL = Threshold limit value – short-time exposure limit
VOC = Volatile Organic Compounds
vPvB = very Persistent and very Bioaccumulative

16.3 Other information

Classification procedure

Aerosol 1: H222 Extremely flammable aerosol. (Bridging principle "Aerosols") H229
Pressurised container: May burst if heated. (Bridging principle "Aerosols")
Carc. 2: H351 Suspected of causing cancer. (Calculation method)
Eye Irrit. 2: H319 Causes serious eye irritation. (Calculation method [RL (EC) No. 1272/2008 Annex I 1.1.3.7])
STOT SE 3: H335 May cause respiratory irritation. (Calculation method [RL (EC) No. 1272/2008 Annex I 1.1.3.7])
Skin Irrit. 2: H315 Causes skin irritation. (Calculation method [RL (EC) No. 1272/2008 Annex I 1.1.3.7])
Resp. Sens. 1: H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. (Calculation method [RL (EC) No. 1272/2008 Annex I 1.1.3.7])
Skin Sens. 1: H317 May cause an allergic skin reaction. (Calculation method [RL (EC) No. 1272/2008 Annex I 1.1.3.7])
STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure. (Bridging principle "Aerosols")
Acute Tox. 4: H332 Harmful if inhaled. (Calculation method [RL (EC) No. 1272/2008 Annex I 1.1.3.7])

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Modified position

SECTION 3 deleted: Tris(2-chloro-1-methylethyl) phosphate
SECTION 3 been added: Reaction products of phosphoryl trichloride and 2-methyloxirane
SECTION 3 deleted: Glycerolpropylenoxidpolyethertriol
SECTION 3 been added: Glycerol propoxilated
SECTION 2 been added: -----
As from 24 August 2023 adequate training is required before industrial or professional use.

SECTION 2 been added: Contains no ingredients with endocrine-disrupting properties.
SECTION 4 been added: Difficulty of breathing
SECTION 5 been added: risk of formation of toxic pyrolysis products, carbon monoxide (CO), not combusted hydrocarbons
SECTION 5 been added: Phosphorus oxides (POx).
SECTION 7 been added: Do not store together with acids and alkalis.
SECTION 8 been added: In the event of occupational exposure limits being exceeded or of inadequate ventilation: wear appropriate respiratory protection.
SECTION 8 deleted: Short term: combination filter AX-P2. (DIN EN 14387)
SECTION 8 been added: Short term: filter apparatus, combination filter A-P2. (DIN EN 14387)
SECTION 8 deleted: Respiratory protection mask in the event of high concentrations.
SECTION 9 deleted: aerosol
SECTION 9 been added: aerosol
SECTION 9 deleted: No information available.
SECTION 12 been added: Does not contain a relevant substance that meets the classification criteria.
SECTION 15 been added: As from 24 August 2023: The employer or self-employed ensures that industrial or professional user(s) have successfully completed training on the safe use of diisocyanates prior to the use of the substance(s) or mixture(s).

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