

UNIVERSAL FOAM - GREY (750 ml)

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830
Issue date: 9/21/2020 Revision date: 9/12/2020 Supersedes version of: 1/17/2019 Version: 3.0

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

1.1. Product identifier

Product form : Mixture
Trade name : UNIVERSAL FOAM - GREY (750 ml)
UFI : C8E9-F0Y9-C00J-DV2S
Product code : 3403

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
Use of the substance/mixture : Foam

1.2.2. Uses advised against

Restrictions on use : All users not mentioned in this chapter or in chapter 7.3

1.3. Details of the supplier of the safety data sheet

Pro Part International
Molenakker 3
5953 TW Reuver - Nederland
T +31 (0) 77 476 2204
info@propart-international.com - www.propart-international.com

1.4. Emergency telephone number

No additional information available

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
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 2	H319
Respiratory sensitisation, Category 1	H334
Skin sensitisation, Category 1	H317
Carcinogenicity, Category 2	H351
Reproductive toxicity, Additional category, Effects on or via lactation	H362
Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation	H335
Specific target organ toxicity — Repeated exposure, Category 2	H373
Hazardous to the aquatic environment — Chronic Hazard, Category 4	H413

Full text of H 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) :



Signal word, (CLP) : Danger

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Contains	: 4,4'-Methylene diphenyl diisocyanate, isomers and homologue; alkanes, C14-17, chloro; chlorinated paraffins, C14-17
Hazard statements (CLP)	: H222 - Extremely flammable aerosol. H229 - Pressurised container: May burst if heated. H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation. H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 - May cause respiratory irritation. H351 - Suspected of causing cancer. H362 - May cause harm to breast-fed children. H373 - May cause damage to organs through prolonged or repeated exposure. H413 - May cause long lasting harmful effects to aquatic life.
Precautionary statements (CLP)	: P101 - If medical advice is needed, have product container or label at hand. P102 - Keep out of reach of children. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211 - Do not spray on an open flame or other ignition source. P251 - Do not pierce or burn, even after use. 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. P501 - Dispose of Contents and container, to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 122 °F, 50 °C.
EUH-statements	: EUH204 - Contains isocyanates. May produce an allergic reaction.
Extra phrases	: 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.

2.3. Other hazards

Other hazards not contributing to the classification : The product contains PBT / vPvB substances: Octamethylcyclotetrasiloxane.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Comments : Blend of
Organic materials

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
4,4'-Methylene diphenyl diisocyanate, isomers and homologue	(CAS-No.) 9016-87-9	40 – 60	Acute Tox. 4 (Inhalation), H332 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

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Glycerol, propoxylated	(CAS-No.) 25791-96-2 (EC-No.) 500-044-5	10 – 20	Acute Tox. 4 (Oral), H302
BUTANE	(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 (Comp.), H280
Propane-1,2-diol, propoxylated	(CAS-No.) 25322-69-4 (EC-No.) 500-039-8	5 – 10	Acute Tox. 4 (Oral), H302
dimethyl ether	(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 (Comp.), H280
alkanes, C14-17, chloro; chlorinated paraffins, C14-17	(CAS-No.) 85535-85-9 (EC-No.) 287-477-0 (EC Index-No.) 602-095-00-X	5 – 10	Lact., H362 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
PROPANE	(CAS-No.) 74-98-6 (EC-No.) 200-827-9 (EC Index-No.) 601-003-00-5 (REACH-no) 01-2119486944-21	2.5 – 5	Flam. Gas 1A, H220 Press. Gas (Comp.), H280
Reaction products of phosphoryl trichloride and 2-methyloxirane	(CAS-No.) 1244733-77-4 (EC-No.) 807-935-0 (REACH-no) 01-2119486772-26	2.5 – 5	Acute Tox. 4 (Oral), H302

Comments : To obtain more information on the hazards of the substances consult sections 11, 12 and 16
Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Symptoms may be delayed. IF exposed or concerned: Get medical advice/attention. When in doubt or if symptoms are observed, get medical advice. If possible show him this sheet. Failing this, show him the packaging or label.
First-aid measures after inhalation	: Move the affected person away from the contaminated area and into the fresh air. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Apply artificial respiration if victim is not breathing. Get immediate medical advice/attention.
First-aid measures after skin contact	: Remove contaminated clothing and shoes. Wash immediately with plenty of soap and water. (neutral soap). Rinse skin with plenty of water or shower. Use cold water. Consult a physician after significant exposure. Thermal burns : Do not remove clothing if it sticks to the skin. When blistering on the skin, do not puncture it, this increases the risk of infection.
First-aid measures after eye contact	: Flush with lukewarm water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Not if the lenses stuck to the eyes, remove the lenses can worsen the damage. In any case, consult a doctor as soon as possible after washing. If possible show this sheet, if not available show packaging or label.
First-aid measures after ingestion	: Do NOT induce vomiting. If the affected person has to vomit, keep the head down to avoid aspiration. Keep the victim calm, avoid physical strain. Rinse the mouth and throat, they may be affected during ingestion.

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

Symptoms/effects	: Most important symptoms and effects, both acute and delayed. See Heading 2. Refer to section 11.
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4.3. Indication of any immediate medical attention and special treatment needed

No additional data.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : polyvalent powders. (ABC-powder, recommended). use as an alternative. CO²-. Foam.
Unsuitable extinguishing media : Do not use water jet.

5.2. Special hazards arising from the substance or mixture

Reactivity in case of fire : As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3. Advice for firefighters

Protection during firefighting : Depending on the size of the fire, it is wise, do not enter fire area without proper protective equipment, including respiratory protection.
Other information : Availability of a minimum of emergency installations or emergency equipment (fire blankets, first aid kit). Act in accordance with local emergency plan. Remove all sources of ignition. In case of fire, cool the vessels and storage tanks of products susceptible to ignition, explosion or boiling liquid-gas explosion due to high temperatures. Contain the extinguishing fluids by bunding.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Stop leak if safe to do so.

6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment. Concerning personal protective equipment to use, see section 8.
Emergency procedures : Evacuate area. Only qualified personnel equipped with suitable protective equipment may intervene. Keep unprotected people away.

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Absolutely avoid any kind of discharge into the aquatic environment. Prevent liquid from entering sewers, watercourses, underground or low areas. Shovel into suitable and closed container for disposal. Notify the relevant authority in case of exposure to the general public or 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. For disposal of solid materials or residues refer to section 13 : "Disposal considerations".

6.4. Reference to other sections

See Heading 8. 13. Disposal considerations.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Handle in accordance with applicable legislation to prevent industrial risks. Keep container closed when not in use. Control spills and residues, destroying them with safe methods (section 6). Dispose of empty containers and wastes safely. Prevent leakage from the packaging. Handle in accordance with good industrial hygiene and safety procedures. Product is not flammable under normal conditions of storage, handling and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. For further information, refer to section 10 : "Stability and Reactivity". This product contains hazardous components for the environment. Due to the danger of this product for the environment it is recommended to use it within an area containing contamination control barriers in case of spillage, as well as having absorbent material in close proximity.
- Hygiene measures : For further information refer to section 8: "Exposure controls/personal protection". Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Remove contaminated clothing and protective equipment before entering eating areas.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Avoid sources of radiation and static electricity. Store away from heat. Avoid contact with food. For further information refer to section 10.5.
- Storage conditions : Store in a well-ventilated place. Keep cool. Store under dry conditions.
- Heat and ignition sources : Keep away from heat.

7.3. Specific end use(s)

Field of application of the product is described in Technical data sheet (TDS).

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

dimethyl ether (115-10-6)

EU - Occupational Exposure Limits

Local name	Dimethylether
IOELV TWA (mg/m ³)	1920 mg/m ³
IOELV TWA (ppm)	1000 ppm
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC

Netherlands - Occupational Exposure Limits

Local name	Dimethylether
Grenswaarde TGG 8H (mg/m ³)	950 mg/m ³
Regulatory reference	Arbeidsomstandighedenregeling 2020

dimethyl ether (115-10-6)

DNEL/DMEL (Workers)

Long-term - systemic effects, inhalation	1894 mg/m ³
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DNEL/DMEL (General population)

Long-term - systemic effects, inhalation	471 mg/m ³
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PNEC (Water)

PNEC aqua (freshwater)	0.155 mg/l
PNEC aqua (marine water)	0.016 mg/l
PNEC aqua (intermittent, freshwater)	1.549 mg/l

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PNEC (Sediment)	
PNEC sediment (freshwater)	0.681 mg/kg
PNEC sediment (marine water)	0.069 mg/kg
PNEC (Soil)	
PNEC soil	0.045 mg/kg
PNEC (STP)	
PNEC sewage treatment plant	160 mg/l

alkanes, C14-17, chloro; chlorinated paraffins, C14-17 (85535-85-9)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	47.9 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	6.7 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	0.58 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	2 mg/m ³
Long-term - systemic effects, dermal	28.75 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0.001 mg/l
PNEC aqua (marine water)	0.0002 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	13 mg/kg
PNEC sediment (marine water)	2,6 mg/kg
PNEC (Soil)	
PNEC soil	11.9 mg/kg dwt
PNEC (Oral)	
PNEC oral (secondary poisoning)	10000 mg/kg bodyweight
PNEC (STP)	
PNEC sewage treatment plant	80 mg/l

Propane-1,2-diol, propoxylated (25322-69-4)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	84 mg/kg bw/day
Long-term - systemic effects, inhalation	10 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	24 mg/kg bodyweight/day
Long-term - systemic effects, dermal	51 mg/kg bodyweight/day
Long-term - local effects, dermal	10 mg/m ³
PNEC (Water)	
PNEC aqua (freshwater)	0.1 mg/l
PNEC aqua (marine water)	0.01 mg/l
PNEC aqua (intermittent, freshwater)	1 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0.765 mg/kg dwt

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PNEC sediment (marine water)	0.0765 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.109 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	100 mg/l

8.2. Exposure controls

Appropriate engineering controls:

In accordance with the order of importance to control professional exposure (Directive 98/24/EC) it is recommended to use localized extraction in the work area as a collective protection measure to avoid exceeding the occupational exposure limits. In case of using personal protective equipment it should have CE marking in accordance with Directive 89/686/EC. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal. To determine the obligation to install emergency showers and / or eye baths in the warehouse, the applicable standards for the storage of chemical products will be taken into account. For further information refer to section 13.

Hand protection:					
Time of penetration is to be checked with the glove producer. Do not use a protective cream after the product has come into contact with the skin. As the product is a mixture of several substances, the resistance of the glove material can not be predicted in advance with total reliability and has therefore to be checked prior to the application.					
Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Reusable gloves, For subsequent manual processing, chemical resistant gloves (EN 374) must be worn, As the product is a mixture of several substances, the resistance of the glove material can not be predicted in advance with total reliability and has therefore to be checked prior to the application.					EN ISO 374-1, EN 374-3, EN 420

Eye protection:			
The equipment must be cleaned thoroughly after each use. Disinfectant-cleaner. Refer to the recommendations of the supplier.			
Type	Use	Characteristics	Standard
Wear suitable face shield			EN 166, EN 167, EN 168,

Skin and body protection:	
EN ISO 13688. Replace boots at any sign of deterioration.	
Type	Standard
Use chemically protective clothing, Flame retardant antistatic protective clothing	EN 464, EN 1149-1, EN 1149-2, EN 1149-3, EN 13034, EN ISO 6529, EN ISO 6530, EN ISO 13982-1
Safety shoes with heat resistant properties, Use chemical-resistant protective equipment, Antistatic clothing including shoes are recommended	EN ISO 13287, EN ISO 20345, EN 13832-1

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Respiratory protection:			
Replace when an increase in resistance to breathing is observed and/or a smell or taste of the contaminant is detected. CE CAT. III			
Device	Filter type	Condition	Standard
Filter mask for gases, vapors and small particles		Protection for Liquid particles, Protection for Solid particles, Gas protection, Vapour protection	EN 149, EN 405

Personal protective equipment symbol(s):



Environmental exposure controls:

Avoid release to the environment. For further information refer to section 7.4D.

Other information:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. ISO3864-1.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Gas
Appearance	: Not available.
Colour	: Grey.
Odour	: Not available.
Odour threshold	: No data available
pH	: Not applicable
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: -12 °C (Propellant spray)
Flash point	: -83 °C (Propellant)
Auto-ignition temperature	: 460 °C (Propellant)
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Vapour pressure at 50 °C	: < 3000 hPa
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 988 kg/m ³ @ 20 °C
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	: 17.69 % (supply) weight
Other properties	: Average Carbon number 8. Average molecular weight 296,6. g/mol.
Additional information	: Density. at 20 °C. 174.82. kg/m ³

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SECTION 10: Stability and reactivity

10.1. Reactivity

None under recommended storage and handling conditions (see section 7).

10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of hazardous reactions

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4. Conditions to avoid

Heating creates the risk of ignition. Direct sunlight.

10.5. Incompatible materials

Acids. Oxidizing agent. Alkalines. Strong bases.

10.6. Hazardous decomposition products

See 10.3. 10.4. 10.5. Possibility of hazardous reactions. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO₂), carbon monoxide and other organic compounds.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous for ingestion. For more information, see chapter 7.1 & 7.2
Acute toxicity (dermal)	: Dermatitis
Acute toxicity (inhalation)	: Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous for inhalation. For more information, see chapter 7.1 & 7.2. Causes irritation in respiratory passages, which is normally reversible and limited to the upper respiratory passages.
Additional information	: Contains glycols. It is recommended not to breathe the vapours for prolonged periods of time due to the possibility of effects that are hazardous to the health .

4,4 '- Methylene diphenyl diisocyanate, isomers and homologue (9016-87-9)

LD50 oral	> 2000 mg/kg
LD50 dermal	> 2000 mg/kg
LC50 inhalation rat (mg/l)	11 mg/l/4h (ATEi)

BUTANE (75-28-5)

LD50 oral	> 2000 mg/kg
LD50 dermal	> 2000 ml/kg
LC50 inhalation rat (mg/l)	> 5 mg/l/4h

Glycerol, propoxylated (25791-96-2)

LD50 oral	500 mg/kg
LD50 dermal	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 20 mg/l/4h

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dimethyl ether (115-10-6)	
LD50 oral	> 2000 mg/kg
LD50 dermal	> 2000 mg/kg
LC50 inhalation rat (mg/l)	308.5 mg/l/4h

PROPANE (74-98-6)	
LD50 oral	> 2000 mg/kg
LD50 dermal	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 5 mg/l/4h

alkanes, C14-17, chloro; chlorinated paraffins, C14-17 (85535-85-9)	
LD50 oral rat	> 2000 mg/kg
LD50 dermal	> 2000 mg/kg
LC50 inhalation rat (Vapours - mg/l/4h)	> 20 mg/l/4h

Propane-1,2-diol, propoxylated (25322-69-4)	
LD50 oral rat	1000 mg/kg
LD50 dermal	> 2000 mg/kg
LC50 inhalation rat (Vapours - mg/l/4h)	> 20 mg/l/4h

Reaction products of phosphoryl trichloride and 2-methyloxirane (1244733-77-4)	
LD50 oral rat	632 mg/kg
LD50 dermal	> 2000 mg/kg
LC50 inhalation rat (Dust/Mist - mg/l/4h)	> 20 mg/l/4h

Skin corrosion/irritation	: May cause dermatitis by skin contact pH: Not applicable
Serious eye damage/irritation	: Causes serious eye damage. pH: Not applicable
Respiratory or skin sensitisation	: - Respiratory: Prolonged exposure can result in specific respiratory hypersensitivity. - Cutaneous: Prolonged contact with the skin can result in episodes of allergic contact dermatitis.
Germ cell mutagenicity	: Based on available data, the classification criteria are not met. For more information, see chapter 7.1 & 7.2
Carcinogenicity	: Exposure to this product can cause cancer. For more specific information on the possible health effects see section 2.

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IARC group	4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate,3 - Not classifiable

Reproductive toxicity	: May cause harm to breast-fed children.
STOT-single exposure	: Causes irritation in respiratory passages, which is normally reversible and limited to the upper respiratory passages.

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STOT-repeated exposure	: - Specific target organ toxicity (STOT)-repeated exposure: Exposure in high concentration can interfere with the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion, and in serious cases, loss of consciousness. For more information, see chapter 7.1 & 7.2. Remove contaminated clothing and shoes. Rinse skin with plenty of water or shower. Use cold water. Get medical advice/attention. Thermal burns : Do not remove clothing adhering to the skin. When blistering on the skin, do not puncture it, this increases the risk of infection.
Aspiration hazard	: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information, see chapter 7.1 & 7.2
Potential adverse human health effects and symptoms	: In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure.
Other information	: The experimental information related to the toxicological properties of the product itself is not available. Contains glycols. It is recommended not to breathe the vapours for prolonged periods of time due to the possibility of effects that are hazardous to the health .

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute)	:
Hazardous to the aquatic environment, long-term (chronic)	:

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EC50 Daphnia 1	1000 mg/l 48u
EC50 72h algae (1)	1000 mg/l

alkanes, C14-17, chloro; chlorinated paraffins, C14-17 (85535-85-9)	
LC50 fish 1	0.1 – 1 mg/l LC50 96h fish
EC50 Daphnia 1	0.1 – 1 mg/l
EC50 other aquatic organisms 1	0.1 – 1 mg/l

Reaction products of phosphoryl trichloride and 2-methyloxirane (1244733-77-4)	
LC50 fish 1	100 mg/l
EC50 Daphnia 1	131 mg/l
EC50 72h algae (1)	82 mg/l

12.2. Persistence and degradability

UNIVERSAL FOAM - GREY (750 ml)	
Persistence and degradability	No additional information available.

Reaction products of phosphoryl trichloride and 2-methyloxirane (1244733-77-4)	
Biodegradation	14 % 20 mg/L 28d

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12.3. Bioaccumulative potential

BUTANE (75-28-5)

BCF fish 1	27
Partition coefficient n-octanol/water (Log Pow)	2.76
Bioaccumulative potential	Low.

PROPANE (74-98-6)

BCF fish 1	13
Partition coefficient n-octanol/water (Log Pow)	2.86
Bioaccumulative potential	Low.

Reaction products of phosphoryl trichloride and 2-methyloxirane (1244733-77-4)

Bioconcentration factor (BCF REACH)	8
Partition coefficient n-octanol/water (Log Pow)	3.17
Additional information	Potential to bioaccumulate is low

12.4. Mobility in soil

BUTANE (75-28-5)

Mobility in soil	Henry 120576,75 Pa·m ³ /mol
Surface tension	9.84 N/m E-3 (25°)
Partition coefficient n-octanol/water (Log Koc)	35

dimethyl ether (115-10-6)

Surface tension	1.136 N/m E-2 (25°C)
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PROPANE (74-98-6)

Mobility in soil	Henry 71636,78 Pa·m ³ /mol
Surface tension	7.02 N/m E-3 (25°C)
Partition coefficient n-octanol/water (Log Koc)	460

Reaction products of phosphoryl trichloride and 2-methyloxirane (1244733-77-4)

Partition coefficient n-octanol/water (Log Koc)	324.2 Henry 6E-3 Pa. m ³ /mol
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12.5. Results of PBT and vPvB assessment

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Results of PBT assessment	Product contains PBT/vPvB substances: Octamethylcyclotetrasiloxane
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12.6. Other adverse effects

Other adverse effects : No additional information available.

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)	: In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014.
Waste treatment methods	: Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommended disposal down the drain. See paragraph 6.2.
European List of Waste (LoW) code	: 16 05 04* - gases in pressure containers (including halons) containing dangerous substances
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. HP4 - "Irritant — skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye. 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. HP13 - "Sensitising:" waste which contains one or more substances known to cause sensitising effects to the skin or the respiratory organs. HP7 - "Carcinogenic:" waste which induces cancer or increases its incidence HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment

SECTION 14: Transport information





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

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
UN 1950	UN 1950	UN 1950	Not regulated	UN 1950
14.2. UN proper shipping name				
AEROSOLS, flammable	AEROSOLS, flammable	Aerosols, flammable	Not regulated	AEROSOLS, flammable
Transport document description				
UN 1950 AEROSOLS, flammable, 2.1, (D)	UN 1950 AEROSOLS, flammable, 2.1	UN 1950 Aerosols, flammable, 2.1	Not regulated	UN 1950 AEROSOLS, flammable, 2.1
14.3. Transport hazard class(es)				
2.1	2.1	2.1	Not regulated	2.1

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			Not regulated	
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not regulated	Not applicable
14.5. Environmental hazards				
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Not regulated	Dangerous for the environment : No
No supplementary information available				

14.6. Special precautions for user

Overland transport

Special provisions (ADR) : 190, 327, 344, 625
Limited quantities (ADR) : 1I
Tunnel restriction code (ADR) : D

Transport by sea

Special provisions (IMDG) : 63, 190, 277, 327, 344, 959
Limited quantities (IMDG) : 1 L
EmS-No. (Fire) : F-D
EmS-No. (Spillage) : S-U

Air transport

No data available

Inland waterway transport

Not regulated

Rail transport

Special provisions (RID) : 190, 327, 344, 625
Limited quantities (RID) : 1L

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

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

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

VOC content : 17.69 % (supply) weight

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Other information, restriction and prohibition regulations

: Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc.):

Contains more than 0.1 % of 4,4'-methylenediphenyl diisocyanate, isomers and homologues by weight. This product may not be distributed in its present form for first-time sale to the general public after 27th December 2010 unless the packaging contains protective gloves meeting the provisions of European Council Directive 89/686/CEE.

Shall not be used in:

- ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays
- tricks and jokes
- games for one or more participants, or any article intended to be used as such, even with ornamental aspects.

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

Other legislation:

The product could be affected by sectorial legislation. Council Directive 75/324/EEC of 20 May 1975 on the approximation of the laws of the Member States relating to aerosol dispensers.

Commission Directive 94/1/EC of 6 January 1994 adapting some technicalities of Council Directive 75/324/EEC on the approximation of the laws of the relating Member States to aerosol dispensers.

Commission Directive 2008/47/EC of 8 April 2008 amending, for the purposes of adapting to technical progress, Council Directive 75/324/EEC on the approximation of the laws of the Member States relating to aerosol dispensers.

Commission Directive 2013/10/EU of 19 March 2013 amending Council Directive 75/324/EEC on the approximation of the laws of the Member States relating to aerosol dispensers in order to adapt its labelling provisions to Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures.

COMMISSION DIRECTIVE (EU) 2016/2037 of 21 November 2016 amending Council Directive 75/324/EEC as regards the maximum allowable pressure of aerosol dispensers and to adapt its labelling provisions to Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures. Contains Octamethylcyclotetrasiloxane.

1. Shall not be placed on the market in wash-off cosmetic products in a concentration equal to or greater than 0,1 % by weight of either substance, after 31 January 2020.

2. For the purposes of this entry, "wash-off cosmetic products" means cosmetic products as defined in Article 2(1)(a) of Regulation (EC) No 1223/2009 that, under normal conditions of use, are washed off with water after application. Regulation of the State Secretary for Infrastructure and the Environment of 7 February 2011, no. BJZ2011034906, to amend a number of ministerial regulations related to the implementation of Directive 2008/98 / EC of the European Parliament and of the Council of the European Union of 19 November 2008 on waste and repealing a number of directives (PbEU L 312).

Act of 3 February 2011 amending the Environmental Management Act, the Environmental Taxes Act and the Environmental Protection Act economic offenses for the implementation of Directive 2008/98 / EC of the European Parliament and of the Council of the European Union of 19 November 2008 on waste and repealing a number of directives (PbEU L 312) (Implementation Act EC Framework Directive on waste).

Decision of 11 February 2011 to amend a number of general administrative measures in connection with the implementation of Directive 2008/98 / EC of the European Parliament and of the Council of the European Union of 19 November 2008 on waste and repealing a number of directives (PbEU L 312).

Implementation Act EC Regulation Registration, Evaluation and Authorization of chemical substances (REACH) (Stbl. 181, 2007)

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Decree to repeal the Safety Data Sheet Decree, Environmentally Hazardous Substances Act and adapt some of the Environmental Management Act residing decisions related to the entry into force of the EC Regulation Registration, Evaluation and Chemical Authorization (REACH) (Stbl. 183, 2007)
Amendments to the Regulation on the Authorization of Pesticides 1995 and the Regulations on the Risk Assessment of New Substances (Environmentally Hazardous Substances Act) (Government Gazette 93, 2007)
Decision of 29 April 2008 amending various general administrative measures to implement the EC regulation
Registration, Evaluation and Authorization of Chemicals (REACH) and as a result of the transfer of the provisions of the Environmentally Hazardous Substances Act according to the Environmental Management Act (amendment of amvb's in implementation of REACH) (Stbl. 160, 2008)
Regulation of the Minister of Housing, Spatial Planning and the Environment of 21 May 2008, no. BJZ2008050015, amending a number of regulations in connection with the entry into force of the EC Regulation, evaluation and authorization of chemical substances (REACH) and as a result of the repeal of the Environmentally Hazardous Substances Act and the transfer of some provisions of the Environmentally Hazardous Substances Act to the Environmental Management Act (amendment of regulations for implementation of REACH) (Government Gazette 101, 2008)
Government Gazette of 28 December 2006, no. 252 (appendices XIII A and XIII B of the new, amended Working conditions scheme).
Government Gazette of 15 June 2011, no. 10255 (amendment and addition of limit values)
Government Gazette of 4 May 2010, no. 6707 (amendment of 4 limit values)
Government Gazette of 22 April 2008, no. 78 (introduction of limit values / breakdown of list of limit values for carcinogenic substances)
Government Gazette of 2 January 2008, no. 1 (amendment / addition / introduction of limit values)
Decree Designating supervisory officials for VROM regulations (Government Gazette 100, 2007) in which the enforcers for the enforcement of REACH are recommended.
Council Directive 75/324 / EEC of 20 May 1975 on the approximation of the laws of the Member States on aerosols
Commission Directive 94/1 / EC of 6 January 1994 technical adaptation of Council Directive 75/324 / EEC on the approximation of the laws of the Member States relating to aerosol dispensers
Commission Directive 2008/47 / EC of 8 April 2008 amending in order to adapt to technical specifications progress, Council Directive 75/324 / EEC on the approximation of the laws of the Member States concerning aerosols
Commission Directive 2013/10 / EU of 19 March 2013 amending Council Directive 75/324 / EEC on the approximation of Member States' laws on aerosols in order to provide for their labeling requirements to be adapted to Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labeling and packaging of substances and mixtures
COMMISSION DIRECTIVE (EU) 2016/2037 of 21 November 2016 amending Council Directive 75/324 / EEC on the maximum permissible pressure of aerosols and in order to adapt their labeling requirements to Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labeling and packaging of substances and mixtures.

Directive 2012/18/EU (SEVESO III)

Seveso Additional information

: Seveso III : P3a, Lower-Tier requirements:150, Upper-Tier requirements: 500

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15.1.2. National regulations

Netherlands

SZW-lijst van kankerverwekkende stoffen	: alkanes, C14-17, chloro; chlorinated paraffins, C14-17 is listed
SZW-lijst van mutagene stoffen	: alkanes, C14-17, chloro; chlorinated paraffins, C14-17 is listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: alkanes, C14-17, chloro; chlorinated paraffins, C14-17 is listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: None of the components are listed

15.2. Chemical safety assessment

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

SECTION 16: Other information

Training advice : Minimal training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Full text of H- and EUH-statements:	
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Carc. 2	Carcinogenicity, Category 2
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Gas 1A	Flammable gases, Category 1A
Lact.	Reproductive toxicity, Additional category, Effects on or via lactation
Press. Gas (Comp.)	Gases under pressure : Compressed 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
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.

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H351	Suspected of causing cancer.
H362	May cause harm to breast-fed children.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.
EUH204	Contains isocyanates. May produce an allergic reaction.

SDS EU (REACH Annex II)

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.