

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 05/02/2018 Revision date: 21/11/2023 Supersedes version of: 25/02/2021 Version: 2.0

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

### 1.1. Product identifier

Product form	: Mixture
Name	: BD-50 Multi Spray
UFI	: M653-Q6KH-100A-Y2HP
Product code	: 683
Article number	: 68300

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

#### 1.2.1. Relevant identified uses

Industrial/Professional use spec Function or use category : For professional use only

: Lubricants, Greases and Release Products

#### 1.2.2. Uses advised against

No additional information available

**1.3. Details of the supplier of the safety data sheet** 

BARDAHL NL - OCD NEDERLAND BV Maxwellstraat 41 3316 GP Dordrecht Nederland T 0031 78 651 2322 - F 0031 78 617 4848 mjkooijman@bardahl.nl - www.bardahl.nl

#### **1.4. Emergency telephone number**

#### Emergency number

: +31 (0) 6 54924171 During office hours: 8.30 t/m 17:00 h

Country	Official advisory body	Address	Emergency number	Comment
	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	0870 243 2241	
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH	0344 892 0111	Only for healthcare professionals
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA	0344 892 0111	Only for healthcare professionals

### **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	
Reproductive toxicity, Additional category, Effects on or via	H362	
lactation Aspiration hazard, Category 1	H304	
Hazardous to the aquatic environment – Chronic Hazard,	H411	
Category 2		
Full text of H- and EUH-statements: see section 16		

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#### Adverse physicochemical, human health and environmental effects

The product has to be labeled due to the calculation procedure of the General Classification guideline for preparations of the EU", DIR.". Repeated or prolonged skin contact may cause dermatitis and defatting. Harmful : may cause lung damage if swallowed.

Labelling according to Regulation (EC)	No. 1272/2008 [CLP]
Hazard pictograms (CLP)	
Circultured (CLD)	GHS02 GHS09
Signal word (CLP) Contains	<ul> <li>Danger</li> <li>Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics &lt;2% aromatics; Distillates (petroleum), hydrotreated light naphthenic; alkanes, C14-17, chloro; chlorinated paraffins, C14-17; 2-butoxyethanol; ethylene glycol monobutyl ether</li> </ul>
Hazard statements (CLP)	<ul> <li>H222 - Extremely flammable aerosol.</li> <li>H229 - Pressurised container: May burst if heated.</li> <li>H362 - May cause harm to breast-fed children.</li> <li>H411 - Toxic to aquatic life with long lasting effects.</li> </ul>
Precautionary statements (CLP)	<ul> <li>P101 - If medical advice is needed, have product container or label at hand.</li> <li>P102 - Keep out of reach of children.</li> <li>P201 - Obtain special instructions before use.</li> <li>P202 - Do not handle until all safety precautions have been read and understood.</li> <li>P210 - Keep away from hot surfaces, open flames, sparks, heat. – No smoking.</li> <li>P211 - Do not spray on an open flame or other ignition source.</li> <li>P251 - Pressurized container: Do not pierce or burn, even after use.</li> <li>P260 - Do not breathe spray, dust.</li> <li>P263 - Avoid contact during pregnancy/while nursing.</li> <li>P264 - Wash hands thoroughly after handling.</li> <li>P270 - Do not eat, drink or smoke when using this product.</li> <li>P273 - Avoid release to the environment.</li> <li>P308+P313 - IF exposed or concerned: Get medical advice/attention.</li> <li>P391 - Collect spillage.</li> <li>P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F</li> <li>P501 - Dispose of contents/container to a facility for the collection of hazardous or special waste.</li> </ul>
Extra phrases	: Without adequate ventilation formation of explosive mixtures may be possible.

2.3. Other hazards

Contains PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

Component	
alkanes, C14-17, chloro; chlorinated paraffins, C14-17	This substance meets the PBT criteria of REACH regulation, annex XIII
(85535-85-9)	This substance meets the vPvB criteria of REACH regulation, annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

Component	
alkanes, C14-17, chloro; chlorinated paraffins, C14- 17(85535-85-9)	The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

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#### **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

#### Not applicable

#### 3.2. Mixtures

Comments

aliphatic hydrocarbons ≥ 30%
 aromatic hydrocarbons <5%</li>
 < 5%:</li>
 perfumes (pin-2- (3) -ene, nopinene)

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics <2% aromatics	EC-No.: 918-481-9 REACH-no: 01-2119457273- 39	25 – 50	Asp. Tox. 1, H304
propane (Note U)	CAS-No.: 74-98-6 EC-No.: 200-827-9 REACH-no: 01-2119486944- 21	10 – 20	Flam. Gas 1A, H220 Press. Gas
butane (Note C)	CAS-No.: 106-97-8 EC-No.: 203-448-7 EC Index-No.: 601-004-00-0 REACH-no: 01-2119474691- 32	10 – 20	Flam. Gas 1A, H220 Press. Gas
Distillates (petroleum), hydrotreated light naphthenic	CAS-No.: 64742-53-6 EC-No.: 265-156-6 EC Index-No.: 649-466-00-2 REACH-no: 01-2119480375- 34	10 – 20	Asp. Tox. 1, H304
isobutane (Note C)	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
alkanes, C14-17, chloro; chlorinated paraffins, C14-17 substance listed as REACH Candidate (Medium-chain chlorinated paraffins (MCCP))	CAS-No.: 85535-85-9 EC-No.: 287-477-0 REACH-no: 01-2119519269- 33	2.5 – 5	Lact., H362 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2-butoxyethanol; ethylene glycol monobutyl ether	CAS-No.: 111-76-2 EC-No.: 203-905-0 EC Index-No.: 603-014-00-0 REACH-no: 01-2119475108- 36	1 – 2.5	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319

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

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

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

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SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures after inhalation	: Allow affected person to breathe fresh air. Allow the victim to rest. Call a poison center or a doctor if you feel unwell.
First-aid measures after skin contact	: Wash skin thoroughly with mild soap and water. Take off immediately all contaminated clothing and wash it before reuse.
First-aid measures after eye contact	<ul> <li>Ensure adequate flushing of eyes by separating eyelids with the fingers. If eye irritation persists: Get medical advice/attention.</li> </ul>
First-aid measures after ingestion	: Do NOT induce vomiting. Get immediate medical advice/attention.
4.2. Most important symptoms and effects, both acute and delayed	

No additional information available

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

#### No additional information available

SECTION 5: Firefighting measures		
5.1. Extinguishing media		
Suitable extinguishing media	: Foam. Powder. Carbon dioxide.	
5.2. Special hazards arising from the substance or mixture		
Fire hazard Explosion hazard	<ul><li>High temperature may liberate toxic gases.</li><li>May form flammable/explosive vapour-air mixture.</li></ul>	
5.3. Advice for firefighters		
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Prevent fire fighting water from entering the environment.	
Protection during firefighting	: Self-contained breathing apparatus.	

SECTION 6: Accidental release measures		
6.1. Personal precautions, protective equ	ipment and emergency procedures	
General measures	: Wear suitable respiratory equipment.	
6.1.1. For non-emergency personnel Emergency procedures	: Keep public away from danger area.	
6.1.2. For emergency responders		
Protective equipment Emergency procedures	<ul><li>Wear proper protective equipment.</li><li>Ventilate area. Keep away from sources of ignition.</li></ul>	
6.2. Environmental precautions		

Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up		
Methods for cleaning up	: Soak up with inert absorbent material (for example sand, sawdust, a universal binder, silica gel). Ventilate area.	
6.4 Poterance to other sections		

For disposal of solid materials or residues refer to section 13 : "Disposal considerations". For further information refer to section 8: "Exposure controls/personal protection". (See section 7: Handling and Storage).

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SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed Precautions for safe handling	<ul> <li>Keep away from sources of ignition - No smoking.</li> <li>Ensure good ventilation of the work station. Avoid contact with skin and eyes. Container under pressure. Do not drill or burn even after use. Do not expose to temperatures exceeding 50 °C/ 122 °F.</li> </ul>
7.2. Conditions for safe storage, including	any incompatibilities
Storage conditions	: Government regulations on storing packagings with pressurized containers must be observed.
Incompatible materials	: heat. Direct sunlight.
7.3. Specific end use(s)	
No additional information available	

### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

propane (74-98-6)		
EU - Indicative Occupational Exposure Limit (IOEL)		
IOEL TWA [ppm] 1000 ppm		
butane (106-97-8)		
EU - Indicative Occupational Exposure Limit (IOEL)		
IOEL TWA	1000	
IOEL TWA [ppm]	1000 ppm	

### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

No additional information available

#### 8.1.5. Control banding

No additional information available

#### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

No additional information available

#### 8.2.2. Personal protection equipment

#### Personal protective equipment:

Protective goggles. Gloves.

Personal protective equipment symbol(s):



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#### 8.2.2.1. Eye and face protection

Eye protection				
Туре	Field of application	Characteristics	Standard	
tightly fitting safety goggles			EN 166	
8.2.2.2. Skin protection				
Skin and body protection				
Туре			Standard	
Wear suitable protective clothing			EN 13034	

#### Hand protection:

Wear suitable gloves resistant to chemical penetration. Refer to manufacturer's information.

Hand protection					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Safety gloves	Nitrile rubber (NBR)	5 (> 240 minutes)	> 0.7		EN ISO 374

#### 8.2.2.3. Respiratory protection

#### **Respiratory protection:**

In case of inadequate ventilation wear respiratory protection.

#### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

#### Other information:

Keep away from food, drink and animal feedingstuffs. Remove contaminated clothing immediately. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid contact with skin and eyes.

SECTION 9: Physical and chemical p	roperties
9.1. Information on basic physical and ch	emical properties
Physical state	: Liquid
Colour	: Yellow.
Appearance	: Aerosol.
Odour	: Pleasant.
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: Not available
Boiling point	: Not available
Flammability	: Not available
Explosive properties	: Product is not explosive. Explosive vapour/air mixtures may be formed.
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: Not available
Auto-ignition temperature	: >200 °C
Decomposition temperature	: Not available
рН	: Not available
Viscosity, kinematic	: Not available
Solubility	: Material nearly insoluble in water.
	Organic solvent:83.3%
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: 0.696 g/cm³ (20°C)

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Relative density	: Not available
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

VOC content Pressurised container Additional information

- : 579.9 g/l
- : May burst if heated.
- : Extremely flammable aerosol.

### **SECTION 10: Stability and reactivity**

10.1. Reactivity

No additional information available

**10.2. Chemical stability** 

No decomposition if used according to specifications.

10.3. Possibility of hazardous reactions

No dangerous reactions known.

**10.4. Conditions to avoid** 

No additional information available

10.5. Incompatible materials

No additional information available

**10.6. Hazardous decomposition products** 

Aldehyde.

## SECTION 11: Toxicological information

11.1. Information on hazard classes as defined	d in Regulation (EC) No 1272/2008
Acute toxicity (dermal)	Not classified Not classified Not classified
Hydrocarbons, C10-C13, n-alkanes, isoalkane	s, cyclics <2% aromatics
LD50 oral rat	5000 mg/kg
LD50 dermal rat	> 5000 mg/kg
LC50 Inhalation - Rat	> 4900 mg/m³
propane (74-98-6)	
LC50 Inhalation - Rat	20 mg/l/4h
Distillates (petroleum), hydrotreated light nap	hthenic (64742-53-6)
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
LC50 Inhalation - Rat	> 5.53 mg/l/4h (EMBSI 1988a)

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alkanes, C14-17, chloro; chlorinated paraffir	s, C14-17 (85535-85-9)
LD50 oral rat	> 2 mg/kg
LD50 dermal rat	> 2 mg/kg
LC50 Inhalation - Rat	3.3 mg/kg
2-butoxyethanol; ethylene glycol monobuty	ether (111-76-2)
LD50 oral rat	1480 mg/kg
LD50 dermal rabbit	400 mg/kg
Skin corrosion/irritation	Not classified
Serious eye damage/irritation	Not classified
Respiratory or skin sensitisation	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	May cause harm to breast-fed children.
STOT-single exposure	Not classified
STOT-repeated exposure	Not classified
Aspiration hazard	May be fatal if swallowed and enters airways.

### 11.2. Information on other hazards

No additional information available

## **SECTION 12: Ecological information**

12	1	T	oxi	city	
14			UNI	City	

(acute)		
LC50 - Fish [1]       2 mg/l (4 days)         EC50 - Crustacea [1]       3 mg/l (aquatic invertebrates)         EC50 72h - Algae [1]       1.1 mg/l         Distillates (petroleum), hydrotreated light napthenic (64742-53-6)         LC50 - Fish [1]       > 100 mg/l LL50         LC50 - Other aquatic organisms [1]       > 10000 LL50         alkanes, C14-17, chloro; chlorinated paraffins, C14-17 (85535-85-9)       LC50 - Fish [1]         LC50 - Fish [1]       > 5000 mg/l (96h)         EC50 - Crustacea [1]       0.006 mg/l (48h)         EC50 - Other aquatic organisms [1]       > 3.2 mg/l (96h) (Algae)         2-butoxyethanol; ethylene glycol monobutyl +tr (111-76-2)       LC50 - Fish [1]         LC50 - Fish [1]       1490 mg/l         EC50 - Crustacea [1]       1490 mg/l	(acute) Hazardous to the aquatic environment, long-term :	
EC50 - Crustacea [1]       3 mg/l (aquatic invertebrates)         EC50 72h - Algae [1]       1.1 mg/l         Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)         LC50 - Fish [1]       > 100 mg/l LL50         LC50 - Other aquatic organisms [1]       > 10000 LL50         alkanes, C14-17, chloro; chlorinated paraffins, C14-17 (85535-85-9)         LC50 - Fish [1]       > 5000 mg/l (96h)         EC50 - Crustacea [1]       0.006 mg/l (48h)         EC50 - Other aquatic organisms [1]       > 3.2 mg/l (96h) (Algae)         2-butoxyethanol; ethylene glycol monobutyl ether (111-76-2)       LC50 - Fish [1]         LC50 - Fish [1]       1490 mg/l         EC50 - Crustacea [1]       1815 mg/l         EC50 - Zrustacea [1]       1490 mg/l	Hydrocarbons, C10-C13, n-alkanes, isoalkane	s, cyclics <2% aromatics
EC50 72h - Algae [1]       1.1 mg/l         Distillates (petroleum), hydrotreated light napthenic (64742-53-6)         LC50 - Fish [1]       > 100 mg/l LL50         LC50 - Other aquatic organisms [1]       > 10000 LL50         alkanes, C14-17, chloro; chlorinated paraffins, C14-17 (85535-85-9)         LC50 - Fish [1]       > 5000 mg/l (96h)         EC50 - Crustacea [1]       0.006 mg/l (48h)         EC50 - Other aquatic organisms [1]       > 3.2 mg/l (96h) (Algae)         2-butoxyethanol; ethylene glycol monobutyl +ther (111-76-2)       LC50 - Fish [1]         LC50 - Fish [1]       1490 mg/l         EC50 - Crustacea [1]       1815 mg/l         EC50 - 72h - Algae [1]       1490 mg/l	LC50 - Fish [1]	2 mg/l (4 days)
Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)           LC50 - Fish [1]         > 100 mg/l LL50           LC50 - Other aquatic organisms [1]         > 10000 LL50           alkanes, C14-17, chloro; chlorinated paraffins, C14-17 (85535-85-9)         Image: C14-17, chloro; chlorinated paraffins, C14-17 (85535-85-9)           LC50 - Fish [1]         > 5000 mg/l (96h)           EC50 - Crustacea [1]         0.006 mg/l (48h)           EC50 - Other aquatic organisms [1]         > 3.2 mg/l (96h) (Algae)           2-butoxyethanol; ethylene glycol monobutyl ether (111-76-2)         Image: C14-17 (62)           LC50 - Fish [1]         1490 mg/l           EC50 - Crustacea [1]         1417 (8500 mg/l (800 mg/l	EC50 - Crustacea [1]	3 mg/l (aquatic invertebrates)
LC50 - Fish [1]       > 100 mg/l LL50         LC50 - Other aquatic organisms [1]       > 10000 LL50         alkanes, C14-17, chloro; chlorinated paraffins, C14-17 (85535-85-9)         LC50 - Fish [1]       > 5000 mg/l (96h)         EC50 - Crustacea [1]       0.006 mg/l (48h)         EC50 - Other aquatic organisms [1]       > 3.2 mg/l (96h) (Algae)         2-butoxyethanol; ethylene glycol monobutyl +tre (111-76-2)         LC50 - Fish [1]       1490 mg/l         EC50 - Crustacea [1]       1815 mg/l         EC50 72h - Algae [1]       1490 mg/l	EC50 72h - Algae [1]	1.1 mg/l
LC50 - Other aquatic organisms [1]       > 10000 LL50         alkanes, C14-17, chloro; chlorinated paraffins, C14-17 (85535-85-9)         LC50 - Fish [1]       > 5000 mg/l (96h)         EC50 - Crustacea [1]       0.006 mg/l (48h)         EC50 - Other aquatic organisms [1]       > 3.2 mg/l (96h) (Algae)         2-butoxyethanol; ethylene glycol monobutyl ether (111-76-2)         LC50 - Fish [1]       1490 mg/l         EC50 - Crustacea [1]       1815 mg/l         EC50 72h - Algae [1]       1490 mg/l	Distillates (petroleum), hydrotreated light nap	hthenic (64742-53-6)
alkanes, C14-17, chloro; chlorinated paraffins, C14-17 (85535-85-9)         LC50 - Fish [1]       > 5000 mg/l (96h)         EC50 - Crustacea [1]       0.006 mg/l (48h)         EC50 - Other aquatic organisms [1]       > 3.2 mg/l (96h) (Algae)         2-butoxyethanol; ethylene glycol monobutyl ther (111-76-2)         LC50 - Fish [1]       1490 mg/l         EC50 - Crustacea [1]       1815 mg/l         EC50 72h - Algae [1]       1490 mg/l	LC50 - Fish [1]	> 100 mg/l LL50
LC50 - Fish [1]       > 5000 mg/l (96h)         EC50 - Crustacea [1]       0.006 mg/l (48h)         EC50 - Other aquatic organisms [1]       > 3.2 mg/l (96h) (Algae)         2-butoxyethanol; ethylene glycol monobutyl ether (111-76-2)         LC50 - Fish [1]       1490 mg/l         EC50 - Crustacea [1]       1815 mg/l         EC50 72h - Algae [1]       1490 mg/l	LC50 - Other aquatic organisms [1]	> 10000 LL50
EC50 - Crustacea [1]       0.006 mg/l (48h)         EC50 - Other aquatic organisms [1]       > 3.2 mg/l (96h) (Algae)         2-butoxyethanol; ethylene glycol monobutyl ether (111-76-2)         LC50 - Fish [1]       1490 mg/l         EC50 - Crustacea [1]       1815 mg/l         EC50 72h - Algae [1]       1490 mg/l	alkanes, C14-17, chloro; chlorinated paraffins	, C14-17 (85535-85-9)
EC50 - Other aquatic organisms [1]       > 3.2 mg/l (96h) (Algae)         2-butoxyethanol; ethylene glycol monobutyl ether (111-76-2)         LC50 - Fish [1]       1490 mg/l         EC50 - Crustacea [1]       1815 mg/l         EC50 72h - Algae [1]       1490 mg/l	LC50 - Fish [1]	> 5000 mg/l (96h)
2-butoxyethanol; ethylene glycol monobutyl ether (111-76-2)           LC50 - Fish [1]         1490 mg/l           EC50 - Crustacea [1]         1815 mg/l           EC50 72h - Algae [1]         1490 mg/l	EC50 - Crustacea [1]	0.006 mg/l (48h)
LC50 - Fish [1]       1490 mg/l         EC50 - Crustacea [1]       1815 mg/l         EC50 72h - Algae [1]       1490 mg/l	EC50 - Other aquatic organisms [1]	> 3.2 mg/l (96h) (Algae)
EC50 - Crustacea [1]     1815 mg/l       EC50 72h - Algae [1]     1490 mg/l	2-butoxyethanol; ethylene glycol monobutyl e	ether (111-76-2)
EC50 72h - Algae [1] 1490 mg/l	LC50 - Fish [1]	1490 mg/l
	EC50 - Crustacea [1]	1815 mg/l
EC50 72h - Algae [2] 911 mg/l	EC50 72h - Algae [1]	1490 mg/l
	EC50 72h - Algae [2]	911 mg/l

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12.2. Persistence and degradability	
Hydrocarbons, C10-C13, n-alkanes, isoalkanes	s, cyclics <2% aromatics
Biodegradation	80 % (28 days)
propane (74-98-6)	
Persistence and degradability	Readily biodegradable.
2-butoxyethanol; ethylene glycol monobutyl et	ther (111-76-2)
Biodegradation	96 %
12.3. Bioaccumulative potential	
2-butoxyethanol; ethylene glycol monobutyl et	ther (111-76-2)
Partition coefficient n-octanol/water (Log Pow)	0.83
Bioaccumulative potential	Low.
12.4. Mobility in soil	
BD-50 Multi Spray	
	Prevent entry to sewers and public waters. Toxic to fish. In surface also poisonous for fish and plankton. Toxic to aquatic organisms.
propane (74-98-6)	
	If released into the environment, the product will rapidly disperse into the atmosphere where it will undergo photochemical degradation.
2-butoxyethanol; ethylene glycol monobutyl et	ther (111-76-2)
Surface tension	2.729 N/m
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	8
12.5. Results of PBT and vPvB assessment	
Component	
	This substance meets the PBT criteria of REACH regulation, annex XIII This substance meets the vPvB criteria of REACH regulation, annex XIII
12.6. Endocrine disrupting properties	
Adverse effects on the environment caused by : 1 endocrine disrupting properties	The substance/mixture has no endocrine disrupting properties.
12.7. Other adverse effects	
No additional information available	
SECTION 13: Disposal considerations	

13.1. Waste treatment methods	
Product/Packaging disposal recommendations	: Prevent entry to sewers and public waters. Dispose in a safe manner in accordance with local/national regulations.
European List of Waste (LoW) code	<ul> <li>15 01 04 - metallic packaging</li> <li>16 05 04* - gases in pressure containers (including halons) containing dangerous</li> <li>substances</li> </ul>

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ADR	IMDG	ΙΑΤΑ	ADN	RID
4.1. UN number or ID n	umber			
UN 1950	UN 1950	UN 1950	UN 1950	Not applicable
I4.2. UN proper shippin	g name			
AEROSOLS	AEROSOLS	Aerosols, flammable	AEROSOLS	Not applicable
Transport document descr	iption			
UN 1950 AEROSOLS, 2.1, (D), ENVIRONMENTALLY HAZARDOUS	UN 1950 AEROSOLS, 2.1	UN 1950 Aerosols, flammable, 2.1, ENVIRONMENTALLY HAZARDOUS	UN 1950 AEROSOLS, 2.1, ENVIRONMENTALLY HAZARDOUS	Not applicable
14.3. Transport hazard o	class(es)		· · ·	
2.1	2.1	2.1	2.1	Not applicable
				Not applicable
14.4. Packing group	II			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental haz	ards			
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: No	Dangerous for the environment: Yes	Dangerous for the environment: Yes	Not applicable
No supplementary informatio	n available		·	

Classification code (ADR)	:	5F
Special provisions (ADR)	:	190, 327, 344, 625
Limited quantities (ADR)	:	11
Excepted quantities (ADR)	:	E0
Packing instructions (ADR)	:	P207, LP02
Special packing provisions (ADR)	:	PP87, RR6, L2
Mixed packing provisions (ADR)	:	MP9
Transport category (ADR)	:	2
Special provisions for carriage - Packages (ADR)	:	V14
Special provisions for carriage - Loading, unloading	:	CV9, CV12
and handling (ADR)		
Special provisions for carriage - Operation (ADR)	:	S2
Tunnel restriction code (ADR)	:	D
Transport by sea		
Special provisions (IMDG)	:	63, 190, 277, 327, 344, 959
Limited quantities (IMDG)	:	SP277
Excepted quantities (IMDG)	:	E0
Packing instructions (IMDG)	:	P207, LP02
Special packing provisions (IMDG)	:	PP87, L2
EmS-No. (Fire)	:	F-D
EmS-No. (Spillage)	:	S-U
Stowage category (IMDG)	:	None

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Air transport	
PCA Excepted quantities (IATA)	: E0
PCA Limited quantities (IATA)	: Y203
PCA limited quantity max net quantity (IATA)	: 30kgG
PCA packing instructions (IATA)	: 203
PCA max net quantity (IATA)	: 75kg
CAO packing instructions (IATA)	: 203
CAO max net quantity (IATA)	: 150kg
Special provisions (IATA)	: A145, A167
ERG code (IATA)	: 10L
Inland waterway transport	
Classification code (ADN)	: 5F
Special provisions (ADN)	: 19, 327, 344, 625
Limited quantities (ADN)	: 1L
Excepted quantities (ADN)	: E0
Equipment required (ADN)	: PP, EX, A
Ventilation (ADN)	: VE01, VE04
Number of blue cones/lights (ADN)	: 1

## Rail transport

Not applicable

#### 14.7. Maritime transport in bulk according to IMO instruments

#### Not applicable

#### **SECTION 15: Regulatory information**

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

#### 15.1.1. EU-Regulations

#### **REACH Annex XVII (Restriction List)**

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

#### **REACH Annex XIV (Authorisation List)**

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

#### **REACH Candidate List (SVHC)**

Contains substance(s) listed on the REACH Candidate List in concentrations  $\geq$  0.1 % or SCL: Medium-chain chlorinated paraffins (MCCP) (EC 287-477-0, CAS 85535-85-9)

#### PIC Regulation (Prior Informed Consent)

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

#### **POP Regulation (Persistent Organic Pollutants)**

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

#### Ozone Regulation (1005/2009)

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

#### VOC Directive (2004/42)

VOC content

: 579.9 g/l

#### **Explosives Precursors Regulation (2019/1148)**

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

#### Drug Precursors Regulation (273/2004)

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

#### 15.1.2. National regulations

No additional information available

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### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

Indication of changes			
Section	Changed item	Change	Comments
1.1	UFI on SDS 1.1	Added	
2.2	Precautionary statements (CLP)	Modified	
9.1	Solubility in organic solvents	Modified	
9.2	VOC content	Modified	
9.2	Additional information	Added	
12.6	Adverse effects on the environment caused by endocrine disrupting properties	Added	
15.1	VOC content	Modified	

Full text of H- and EUH-statements:				
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4			
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			
Asp. Tox. 1	Aspiration hazard, Category 1			
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2			
Flam. Gas 1A	Flammable gases, Category 1A			
H220	Extremely flammable gas.			
H222	Extremely flammable aerosol.			
H229	Pressurised container: May burst if heated.			
H302	Harmful if swallowed.			
H304	May be fatal if swallowed and enters airways.			
H312	Harmful in contact with skin.			
H315	Causes skin irritation.			
H319	Causes serious eye irritation.			
H332	Harmful if inhaled.			
H362	May cause harm to breast-fed children.			
H400	Very toxic to aquatic life.			
H410	Very toxic to aquatic life with long lasting effects.			
H411	Toxic to aquatic life with long lasting effects.			
Lact.	Reproductive toxicity, Additional category, Effects on or via lactation			
Press. Gas	Gases under pressure			
Skin Irrit. 2	Skin corrosion/irritation, Category 2			

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Safety Data Sheet (SDS), EU

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.