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

1.1. Product identifier

Product form : Mixture
 Trade name : Storage Seal Fogging Oil
 UFI : N13V-N252-MH6M-KK0U
 Product code : 8M0215162
 Vaporizer : Aerosol
 Product group : Blend
 Document no. : 766-01-0354S
 (Original SDS: MSDS_70125_BRUNSWICK_EN_20230227)

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

1.2.1. Relevant identified uses

Intended for general public
 Main use category : Industrial use, Professional use, Consumer use
 Industrial/Professional use spec : Non-dispersive use
 Used in closed systems
 Use of the substance/mixture : Lubricants and additives

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Brunswick Marine EMEA
 Parc industriel de Petit-Rechain, Avenue Mercury 8
 4800 Verviers - Belgium
 T +32 (0)87 32 32 11
bme.compliance@brunswick.com

1.4. Emergency telephone number

Emergency number : 0032 3 575 55 55
 This telephone number is available 24 hours per day, 7 days per week.

Country	Official advisory body	Address	Emergency number
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Aerosol 1 H222;H229
 Skin Irrit. 2 H315
 STOT SE 3 H336

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Aquatic Chronic 2 H411

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

2.2. Label elements

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

Hazard pictograms (CLP)



Signal word

Contains

Hazard statements (CLP)

: Danger
: Hydrocarbons, C6, isoalkanes, <5% n-hexane
: H222 - Extremely flammable aerosol.
H229 - Pressurised container: May burst if heated.
H315 - Causes skin irritation.
H336 - May cause drowsiness or dizziness.
H411 - Toxic to aquatic life with long lasting effects.
: 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.
P273 - Avoid release to the environment.
P391 - Collect spillage.
P405 - Store locked up.
P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C.
P501 - Dispose of contents and container to an approved waste disposal plant.

Child-resistant fastening

Tactile warning

: Not applicable
: Not applicable

2.3. Other hazards

Other hazards

: Vapours can form explosive mixtures with air. Results of PBT and vPvB assessment :

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

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

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Substance name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Hydrocarbons, C6, isoalkanes, <5% n-hexane	(CAS-No.) 64742-49-0 (EC-No.) 931-254-9 (REACH-no) 01-2119484651-34-XXXX	25 – 50	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Propane	(CAS-No.) 74-98-6 (EC-No.) 200-827-9 (EC Index) 601-003-00-5	20 – 25	Flam. Gas 1A, H220 Press. Gas (Liq.), H280
butane	(CAS-No.) 106-97-8 (EC-No.) 203-448-7 (EC Index) 601-004-00-0	12,5 – 20	Flam. Gas 1A, H220 Press. Gas (Comp.), H280
Isobutane	(CAS-No.) 75-28-5 (EC-No.) 200-857-2 (EC Index) 601-004-00-0 (REACH-no) 01-2119485395-27-XXXX	12,5 – 20	Flam. Gas 1A, H220 Press. Gas (Comp.), H280
calcium bis(di C8-C10, branched, C9 rich, alkyl)naphthalenesulphonate)	(CAS-No.) 1474044-79-5 (EC-No.) 939-717-7 (REACH-no) 01-2119980985-16-XXXX	< 2,5	Skin Irrit. 2, H315 Eye Irrit. 2, H319

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

SECTION 4: First aid measures

4.1. Description of first aid measures

Additional advice	: First aider: Pay attention to self-protection!. Concerning personal protective equipment to use, see section 8. Never give anything by mouth to an unconscious person. In case of doubt or persistent symptoms, consult always a physician. Show this safety data sheet to the doctor in attendance.
Inhalation	: Remove casualty to fresh air and keep warm and at rest. In case of doubt or persistent symptoms, consult always a physician.
Skin contact	: Remove contaminated clothing and shoes. Gently wash with plenty of soap and water. In case of doubt or persistent symptoms, consult always a physician.
Eyes contact	: Rinse immediately carefully and thoroughly with eye-bath or water. In case of doubt or persistent symptoms, consult always a physician.
Ingestion	: Do NOT induce vomiting. Rinse mouth thoroughly with water. Get medical advice/attention.

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

Inhalation	: May cause drowsiness or dizziness.
Skin contact	: Causes skin irritation. The following symptoms may occur: Redness.
Eyes contact	: The following symptoms may occur: Irritation, Redness.
Ingestion	: May cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: carbon dioxide (CO2), powder, alcohol-resistant foam, water spray.
Unsuitable extinguishing media	: Strong water jet.

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5.2. Special hazards arising from the substance or mixture

Specific hazards	: Extremely flammable aerosol. Ignition risk. Vapours are heavier than air and may spread along floors. Vapours are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapours. Aerosol cans may rupture and become projectiles. In use, may form flammable/explosive vapour-air mixture. Do not spray on a naked flame or any incandescent material. On heating there is a risk of a build-up of pressure in hermetically sealed containers or tanks.
Hazardous decomposition products in case of fire	: Carbon oxides (CO, CO ₂).

5.3. Advice for firefighters

Firefighting instructions	: Evacuate area. Use water spray or fog for cooling exposed containers. Contain the extinguishing fluids by bunding. Prevent fire fighting water from entering the environment.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus.
Other information	: Do not allow run-off from fire-fighting to enter drains or water courses. Dispose of waste in accordance with environmental legislation.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

For non-emergency personnel	: Evacuate unnecessary personnel. Keep upwind. Provide adequate ventilation. Wear recommended personal protective equipment. Concerning personal protective equipment to use, see section 8. Do not breathe vapours. Do not breathe aerosol. Avoid contact with skin, eyes and clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ensure equipment is adequately earthed. Use explosion-proof equipment. Use only non-sparking tools.
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6.1.2. For emergency responders

For emergency responders	: Ensure procedures and training for emergency decontamination and disposal are in place. Concerning personal protective equipment to use, see section 8.
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6.2. Environmental precautions

Do not allow to enter into surface water or drains. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up	: Stop leak if safe to do so. Leave evaporate and disperse. Dam up the liquid spill. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. Recover large spills by pumping (use an explosion proof or hand pump). Place in a suitable container for disposal in accordance with the waste regulations (see Section 13). This material and its container must be disposed of in a safe way, and as per local legislation.
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6.4. Reference to other sections

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

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Provide adequate ventilation. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8. Do not breathe vapours. Do not breathe aerosol. Avoid contact with skin, eyes and clothing. Take any precaution to avoid mixing with Incompatible materials, Refer to Section 10 on Incompatible Materials. Ensure proper process control to avoid excess waste discharge (temperature, concentration, pH, time). Avoid release to the environment. Remove all sources of ignition. Pressurised container. Protect from sunlight and do not expose to temperatures exceeding 50°C.
Hygiene measures	: Keep good industrial hygiene. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product. Keep away from food, drink and animal feedingstuffs. Remove contaminated clothes. Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Store in a dry, cool and well-ventilated place. Do not store near or with any of the incompatible materials listed in section 10. Bund storage facilities to prevent soil and water pollution in the event of spillage.
Storage temperature	: ≤ 40 °C
Packaging materials	: Keep only in the original container.

7.3. Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Propane (74-98-6)		
Austria	MAK (OEL TWA)	1800 mg/m ³
Austria	MAK (OEL TWA) [ppm]	1000 ppm
Austria	MAK (OEL STEL)	3600 mg/m ³
Austria	MAK (OEL STEL) [ppm]	2000 ppm
Belgium	OEL TWA [ppm]	1000 ppm (gas)
Bulgaria	OEL TWA	1800 mg/m ³
Denmark	OEL TWA [1]	1800 mg/m ³
Denmark	OEL TWA [2]	1000 ppm
Denmark	OEL STEL	3600 mg/m ³
Denmark	OEL STEL [ppm]	2000 ppm
Estonia	OEL TWA	1800 mg/m ³
Estonia	OEL TWA [ppm]	1000 ppm
Finland	HTP (OEL TWA) [1]	1500 mg/m ³ (suffocating gas that displaces oxygen)
Finland	HTP (OEL TWA) [2]	800 ppm (suffocating gas that displaces oxygen)
Finland	HTP (OEL STEL)	2000 mg/m ³
Finland	HTP (OEL STEL) [ppm]	1100 ppm
Germany	Occupational exposure limit value (mg/m ³) (TRGS900)	1800 mg/m ³

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Propane (74-98-6)		
Germany	Occupational exposure limit value (ppm) (TRGS900)	1000 ppm
Greece	OEL TWA	1800 mg/m ³
Greece	OEL TWA [ppm]	1000 ppm
Ireland	OEL STEL [ppm]	3000 ppm (calculated (Aliphatic hydrocarbon gases - Alkanes (C1-C4)))
Latvia	OEL TWA	1800 mg/m ³
Latvia	OEL TWA [ppm]	1000 ppm
Poland	NDS (OEL TWA)	1800 mg/m ³
Portugal	OEL TWA [ppm]	1000 ppm
Romania	OEL TWA	1400 mg/m ³
Romania	OEL TWA [ppm]	778 ppm
Romania	OEL STEL	1800 mg/m ³
Romania	OEL STEL [ppm]	1000 ppm
Slovenia	OEL TWA	1800 mg/m ³
Slovenia	OEL TWA [ppm]	1000 ppm
Slovenia	OEL STEL	7200 mg/m ³
Slovenia	OEL STEL [ppm]	4000 ppm
Norway	Grenseverdi (OEL TWA) [1]	900 mg/m ³
Norway	Grenseverdi (OEL TWA) [2]	500 ppm
Norway	Korttidsverdi (OEL STEL)	1125 mg/m ³ (value calculated)
Norway	Korttidsverdi (OEL STEL) [ppm]	625 ppm (value calculated)
Switzerland	MAK (OEL TWA) [1]	1800 mg/m ³
Switzerland	MAK (OEL TWA) [2]	1000 ppm
Switzerland	KZGW (OEL STEL)	7200 mg/m ³
Switzerland	KZGW (OEL STEL) [ppm]	4000 ppm
Canada (Quebec)	VEMP (OEL TWA)	1800 mg/m ³
Canada (Quebec)	VEMP (OEL TWA) [ppm]	1000 ppm
USA - IDLH	IDLH [ppm]	2100 ppm (10% LEL)
USA - NIOSH	NIOSH REL TWA	1800 mg/m ³
USA - NIOSH	NIOSH REL TWA [ppm]	1000 ppm
USA - OSHA	OSHA PEL TWA [1]	1800 mg/m ³
USA - OSHA	OSHA PEL TWA [2]	1000 ppm
butane (106-97-8)		
Austria	MAK (OEL TWA)	1900 mg/m ³ (Butane (all isomers))
Austria	MAK (OEL TWA) [ppm]	800 ppm (Butane (all isomers))
Austria	MAK (OEL STEL)	3800 mg/m ³
Austria	MAK (OEL STEL) [ppm]	1600 ppm
Belgium	OEL STEL	2370 mg/m ³
Belgium	OEL STEL [ppm]	980 ppm
Bulgaria	OEL TWA	1900 mg/m ³

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butane (106-97-8)		
Croatia	GVI (OEL TWA) [1]	1450 mg/m ³ 22 mg/m ³ (containing >=0.1% Butadiene)
Croatia	GVI (OEL TWA) [2]	600 ppm 10 ppm (containing >=0.1% Butadiene)
Croatia	KGVI (OEL STEL)	1810 mg/m ³
Croatia	KGVI (OEL STEL) [ppm]	750 ppm
Denmark	OEL TWA [1]	1200 mg/m ³
Denmark	OEL TWA [2]	500 ppm
Denmark	OEL STEL	2400 mg/m ³
Denmark	OEL STEL [ppm]	1000 ppm
Estonia	OEL TWA	1500 mg/m ³
Estonia	OEL TWA [ppm]	800 ppm
Finland	HTP (OEL TWA) [1]	1900 mg/m ³ (suffocating gas that displaces oxygen (Butane))
Finland	HTP (OEL TWA) [2]	800 ppm (suffocating gas that displaces oxygen (Butane))
Finland	HTP (OEL STEL)	2400 mg/m ³
Finland	HTP (OEL STEL) [ppm]	1000 ppm
France	VME (OEL TWA)	1900 mg/m ³
France	VME (OEL TWA) [ppm]	800 ppm
Germany	Occupational exposure limit value (mg/m ³) (TRGS900)	2400 mg/m ³
Germany	Occupational exposure limit value (ppm) (TRGS900)	1000 ppm
Greece	OEL TWA	2350 mg/m ³
Greece	OEL TWA [ppm]	1000 ppm
Hungary	AK (OEL TWA)	2350 mg/m ³
Hungary	CK (OEL STEL)	9400 mg/m ³
Ireland	OEL TWA [2]	1000 ppm (Aliphatic hydrocarbon gases - Alkanes (C1-C4))
Ireland	OEL STEL [ppm]	3000 ppm (calculated)
Latvia	OEL TWA	300 mg/m ³
Poland	NDS (OEL TWA)	1900 mg/m ³
Poland	NDSch (OEL STEL)	3000 mg/m ³
Portugal	OEL STEL [ppm]	1000 ppm
Slovenia	OEL TWA	2400 mg/m ³ (containing >=0.1% Butadiene)
Slovenia	OEL TWA [ppm]	1000 ppm (containing >=0.1% Butadiene)
Slovenia	OEL STEL	9600 mg/m ³ (containing >=0.1% Butadiene)
Slovenia	OEL STEL [ppm]	4000 ppm (containing >=0.1% Butadiene)
United Kingdom	WEL TWA (OEL TWA) [1]	1450 mg/m ³
United Kingdom	WEL TWA (OEL TWA) [2]	600 ppm
United Kingdom	WEL STEL (OEL STEL)	1810 mg/m ³

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butane (106-97-8)		
United Kingdom	WEL STEL (OEL STEL) [ppm]	750 ppm
Norway	Grenseverdi (OEL TWA) [1]	600 mg/m ³
Norway	Grenseverdi (OEL TWA) [2]	250 ppm
Norway	Korttidsverdi (OEL STEL)	750 mg/m ³ (value calculated)
Norway	Korttidsverdi (OEL STEL) [ppm]	312,5 ppm (value calculated)
Switzerland	MAK (OEL TWA) [1]	1900 mg/m ³ (Butane (all isomers))
Switzerland	MAK (OEL TWA) [2]	800 ppm (Butane (all isomers))
Switzerland	KZGW (OEL STEL)	7600 mg/m ³ (Butane both isomers)
Switzerland	KZGW (OEL STEL) [ppm]	3200 ppm (Butane both isomers)
Australia	OES TWA [1]	1900 mg/m ³
Australia	OES TWA [2]	800 ppm
Canada (Quebec)	VEMP (OEL TWA)	1900 mg/m ³
Canada (Quebec)	VEMP (OEL TWA) [ppm]	800 ppm
USA - ACGIH	ACGIH OEL STEL [ppm]	1000 ppm (explosion hazard (Butane, isomers))
USA - IDLH	IDLH [ppm]	1600 ppm (>10% LEL)
USA - NIOSH	NIOSH REL TWA	1900 mg/m ³
USA - NIOSH	NIOSH REL TWA [ppm]	800 ppm
Isobutane (75-28-5)		
Austria	MAK (OEL TWA)	1900 mg/m ³ (Butane (all isomers))
Austria	MAK (OEL TWA) [ppm]	800 ppm (Butane (all isomers))
Austria	MAK (OEL STEL)	3800 mg/m ³ (Butane both isomers)
Austria	MAK (OEL STEL) [ppm]	1600 ppm (Butane both isomers)
Belgium	OEL STEL	2370 mg/m ³
Belgium	OEL STEL [ppm]	980 ppm
Estonia	OEL TWA	1900 mg/m ³
Estonia	OEL TWA [ppm]	800 ppm
Finland	HTP (OEL TWA) [1]	1900 mg/m ³ (suffocating gas that displaces oxygen (Butane))
Finland	HTP (OEL TWA) [2]	800 ppm (suffocating gas that displaces oxygen (Butane))
Finland	HTP (OEL STEL)	2400 mg/m ³ (Butane)
Finland	HTP (OEL STEL) [ppm]	1000 ppm (Butane)
Germany	Occupational exposure limit value (mg/m ³) (TRGS900)	2400 mg/m ³
Germany	Occupational exposure limit value (ppm) (TRGS900)	1000 ppm
Portugal	OEL STEL [ppm]	1000 ppm
Slovenia	OEL TWA	2400 mg/m ³
Slovenia	OEL TWA [ppm]	1000 ppm
Slovenia	OEL STEL	9600 mg/m ³
Slovenia	OEL STEL [ppm]	4000 ppm
Switzerland	MAK (OEL TWA) [1]	1900 mg/m ³ (including Butane (all isomers))

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Isobutane (75-28-5)		
Switzerland	MAK (OEL TWA) [2]	800 ppm (including Butane (all isomers)
Switzerland	KZGW (OEL STEL)	7600 mg/m ³ (Butane both isomers)
Switzerland	KZGW (OEL STEL) [ppm]	3200 ppm (Butane both isomers)
USA - ACGIH	ACGIH OEL STEL [ppm]	1000 ppm (explosion hazard (Butane, isomers)
USA - NIOSH	NIOSH REL TWA	1900 mg/m ³
USA - NIOSH	NIOSH REL TWA [ppm]	800 ppm

Additional information : Recommended monitoring procedures :. Personal air monitoring. Room air monitoring

8.2. Exposure controls

Engineering measure(s)	: Provide adequate ventilation. Organisational measures to prevent/limit releases, dispersion and exposure. See Section 7 for information on safe handling. Use only outdoors or in a well-ventilated area. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharges.
Personal protective equipment	: The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Hand protection	: Wear chemically resistant gloves (tested to EN374) . Suitable material: NBR (Nitrile rubber). Thickness of the glove material: >0,35 mm. Breakthrough time : > 8h. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.
Eye protection	: Use suitable eye protection (EN166): goggles
Body protection	: Wear suitable protective clothing
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment. Half-face mask (DIN EN 140). full face mask (DIN EN 136). Filter type: ABEK + P (EN 14387). The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used. (EN 137)
Thermal hazard protection	: Not required for normal conditions of use. Use dedicated equipment.
Environmental exposure controls	: Avoid release to the environment. Comply with applicable Community environmental protection legislation.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Aerosol.
Colour	: brown.
Odour	: Characteristic.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting / freezing point	: No data available
Freezing point	: No data available
Initial boiling point and boiling range	: No data available
Flash point	: Not applicable
Auto-ignition temperature	: 460 °C

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Decomposition temperature	: No data available
Flammability	: Extremely flammable aerosol.
Vapour pressure	: 3500 hPa (20°C)
Vapour density	: No data available
Relative density	: No data available
Density	: 600 kg/m ³ (20°C)
Solubility	: Practically not miscible. Water: No data available
Partition coefficient n-octanol/water	: No data available
Kinematic viscosity	: Not applicable
Dynamic viscosity	: No data available
Explosive properties	: Not applicable. The study does not need to be conducted because there are no chemical groups associated with explosive properties present in the molecule.
Oxidising properties	: Not applicable. The classification procedure needs not to be applied because there are no chemical groups present in the molecule which are associated with oxidising properties.
Explosive limits	: 0,6 – 10,9 vol %
Particle size	: Not applicable
Particle size distribution	: Not applicable
Particle shape	: Not applicable
Particle aspect ratio	: Not applicable
Particle aggregation state	: Not applicable
Particle agglomeration state	: Not applicable
Particle specific surface area	: Not applicable
Particle dustiness	: Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

% of flammable ingredients : 100 %

9.2.2. Other safety characteristics

VOC content : 503,2 g/l (80%)

SECTION 10: Stability and reactivity

10.1. Reactivity

Extremely flammable aerosol. Reference to other sections: 10.4 & 10.5.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Will ignite if exposed to intensive heat and air. Risk of explosion by shock, friction, fire or other sources of ignition.

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid temperature above 50°C. See Section 7 for information on safe handling.

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10.5. Incompatible materials

oxidising substances. See Section 7 for information on safe handling.

10.6. Hazardous decomposition products

Reference to other sections 5.2.

SECTION 11: Toxicological information

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

Acute toxicity : Not classified (Based on available data, the classification criteria are not met)

Propane (74-98-6)	
LC50/inhalation/4h/rat	513 mg/l/4h , 280000 ppm.
LC50/inhalation/4h/rat (ppm)	> 800000 ppm (Exposure time: 15 min)
butane (106-97-8)	
LC50/inhalation/4h/rat	539600 ppm , 57,42% (Exposure time: 2 h)
Isobutane (75-28-5)	
LC50/inhalation/4h/rat	> 800000 ppm
LC50/inhalation/4h/rat (ppm)	> 800000 ppm (Exposure time: 15 min)

Skin corrosion/irritation : Causes skin irritation.
pH: No data available

Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met)
pH: No data available

Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met)

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)

Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)

Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)

STOT-single exposure : May cause drowsiness or dizziness.

STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)

Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

Storage Seal Fogging Oil	
Vaporizer	Aerosol
Kinematic viscosity	Not applicable

Other information : Symptoms related to the physical, chemical and toxicological characteristics. For further information see section 4.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties : 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 %

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11.2.2 Other information

Other information : Symptoms related to the physical, chemical and toxicological characteristics, For further information see section 4

SECTION 12: Ecological information

12.1. Toxicity

Environmental properties : Toxic to aquatic life with long lasting effects.

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

Hazardous to the aquatic environment, long-term (chronic) : Toxic to aquatic life with long lasting effects.

Propane (74-98-6)	
LC50 - Fish [1]	49,9 mg/l
butane (106-97-8)	
LC50 - Fish [1]	49,9 mg/l (QSAR)
Isobutane (75-28-5)	
LC50 - Fish [1]	24,11 – 147,54 mg/l
LC50 - Other aquatic organisms [1]	14,22 – 69,43 mg/l
EC50 72h - Algae [1]	7,71 – 16,5 mg/l

12.2. Persistence and degradability

Storage Seal Fogging Oil	
Persistence and degradability	Minimally biodegradable.

12.3. Bioaccumulative potential

Storage Seal Fogging Oil	
Partition coefficient n-octanol/water	No data available
Bioaccumulative potential	No additional information available.

Propane (74-98-6)	
Partition coefficient n-octanol/water	2,3

butane (106-97-8)	
Partition coefficient n-octanol/water	2,89

Isobutane (75-28-5)	
BCF - Fish [1]	1,57 – 1,97

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12.4. Mobility in soil

Storage Seal Fogging Oil	
Mobility in soil	No data available

12.5. Results of PBT and vPvB assessment

Storage Seal Fogging Oil	
Results of PBT assessment	Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : 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 %

12.7. Other adverse effects

Other adverse effects : No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations : Avoid release to the environment. Dispose of empty containers and wastes safely. See Section 7 for information on safe handling. Refer to manufacturer/supplier for information on recovery/recycling. Recycling is preferred to disposal or incineration. If recycling is not possible, eliminate in accordance with local valid waste disposal regulations. Handle contaminated packages in the same way as the substance itself. Dispose of contaminated materials in accordance with current regulations. Packaging contaminated by the product : Do not pierce or burn, even after use. Never use pressure to empty container.

European waste catalogue (2001/573/EC, 75/442/EEC, 91/689/EEC) : This material and its container must be disposed of as hazardous waste
Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
1950	1950	1950	1950	1950
14.2. UN proper shipping name				
AEROSOLS	AEROSOLS	Aerosols, flammable	AEROSOLS	AEROSOLS
Transport document description				
UN 1950 AEROSOLS, 2.1, (D), ENVIRONMENTALLY HAZARDOUS	UN 1950 AEROSOLS, 2.1, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS	UN 1950 Aerosols, flammable, 2.1, ENVIRONMENTALLY HAZARDOUS	UN 1950 AEROSOLS, 2.1, ENVIRONMENTALLY HAZARDOUS	UN 1950 AEROSOLS, 2.1, ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard class(es)				
2.1	2.1	2.1	2.1	2.1

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ADR	IMDG	IATA	ADN	RID
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes
No supplementary information available				

14.6. Special precautions for user

Special precautions for user : No data available

- Overland transport

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

- Transport by sea

Special provisions (IMDG) : 63, 190, 277, 327, 344, 381, 959
Limited quantities (IMDG) : SP277
Excepted quantities (IMDG) : E0
Packing instructions (IMDG) : P207, LP200
Special packing provisions (IMDG) : PP87, L2
EmS-No. (Fire) : F-D
EmS-No. (Spillage) : S-U
Stowage category (IMDG) : None
Stowage and handling (IMDG) : SW1, SW22
Segregation (IMDG) : SG69

- Air transport

PCA Excepted quantities (IATA) : E0
PCA Limited quantities (IATA) : Y203

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

- Inland waterway transport

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

- Rail transport

Classification code (RID) : 5F
 Special provisions (RID) : 190, 327, 344, 625
 Limited quantities (RID) : 1L
 Excepted quantities (RID) : E0
 Packing instructions (RID) : P207, LP200
 Special packing provisions (RID) : PP87, RR6, L2
 Mixed packing provisions (RID) : MP9
 Transport category (RID) : 2
 Special provisions for carriage – Packages (RID) : W14
 Special provisions for carriage - Loading, unloading and handling (RID) : CW9, CW12
 Colis express (express parcels) (RID) : CE2
 Hazard identification number (RID) : 23

14.7. Maritime transport in bulk according to IMO instruments

Code: IBC : No data available.

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Listed on REACH Annex XVII (Restriction Conditions). The following restrictions are applicable:

3(a) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F	Storage Seal Fogging Oil ; Hydrocarbons, C6, isoalkanes, <5% n-hexane
3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	Storage Seal Fogging Oil ; Hydrocarbons, C6, isoalkanes, <5% n-hexane
3(c) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	Storage Seal Fogging Oil ; Hydrocarbons, C6, isoalkanes, <5% n-hexane

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40. Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.	Hydrocarbons, C6, isoalkanes, <5% n-hexane ; Propane ; butane ; Isobutane
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Contains no substance(s) listed on the REACH Candidate List

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

VOC content : 503,2 g/l (80%)

15.1.2. National regulations

France

No ICPE	Installations classées Désignation de la rubrique	Code Régime	Rayon
4320.text	Aérosols extrêmement inflammables ou inflammables de catégorie 1 ou 2 contenant des gaz inflammables de catégorie 1 ou 2 ou des liquides inflammables de catégorie 1.		
4320.1	La quantité totale susceptible d'être présente dans l'installation étant : 1. Supérieure ou égale à 150 t Nota. — Les aérosols inflammables sont classés conformément à la directive 75/324/ CEE relative aux générateurs aérosols. Les aérosols extrêmement inflammables et inflammables de la directive 75/324/ CEE correspondent respectivement aux aérosols inflammables des catégories 1 et 2 du règlement (CE) n° 1272/2008. Quantité seuil bas au sens de l'article R. 511-10 : 150 t. Quantité seuil haut au sens de l'article R. 511-10 : 500 t.	A	2
4320.2	La quantité totale susceptible d'être présente dans l'installation étant : 2. Supérieure ou égale à 15 t et inférieure à 150 t Nota. — Les aérosols inflammables sont classés conformément à la directive 75/324/ CEE relative aux générateurs aérosols. Les aérosols extrêmement inflammables et inflammables de la directive 75/324/ CEE correspondent respectivement aux aérosols inflammables des catégories 1 et 2 du règlement (CE) n° 1272/2008. Quantité seuil bas au sens de l'article R. 511-10 : 150 t. Quantité seuil haut au sens de l'article R. 511-10 : 500 t.	D	
4511.text	Dangereux pour l'environnement aquatique de catégorie chronique 2.		
4511.1	La quantité totale susceptible d'être présente dans l'installation étant : 1. Supérieure ou égale à 200 t Quantité seuil bas au sens de l'article R. 511-10 : 200 t. Quantité seuil haut au sens de l'article R. 511-10 : 500 t.	A	1
4511.2	La quantité totale susceptible d'être présente dans l'installation étant : 2. Supérieure ou égale à 100 t mais inférieure à 200 t Quantité seuil bas au sens de l'article R. 511-10 : 200 t. Quantité seuil haut au sens de l'article R. 511-10 : 500 t.	DC	

Germany

Regulatory reference : WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1)

German storage class (LGK) : LGK 2B - Aerosol dispensers and lighters

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Hazardous Incident Ordinance (12. BImSchV) : Listed in the 12. BImSchV (Annex I) under: 1.2.3.1

Quantity threshold for operational area under § 1 para. 1

- Sentence 1: 150000 kg
- Sentence 2: 500000 kg

Listed in the 12. BImSchV (Annex I) under: 1.3.2

Quantity threshold for operational area under § 1 para. 1

- Sentence 1: 200000 kg
- Sentence 2: 500000 kg

Netherlands

Waterbezwaarlijkheid : A (2) - Vergiftig voor in water levende organismen
kan in het aquatische milieu op lange termijn schadelijke effecten veroorzaken

SZW-lijst van kankerverwekkende stoffen : None of the components are listed

SZW-lijst van mutagene stoffen : None of the components are listed

SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed

SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : None of the components are listed

SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are listed

Denmark

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product

15.2. Chemical safety assessment

Not applicable

For the following substances of this mixture a chemical safety assessment has been carried out
Hydrocarbons, C6, isoalkanes, <5% n-hexane Propane butane Isobutane calcium bis(di C8-C10, branched, C9 rich, alkylnaphthalenesulphonate)

SECTION 16: Other information

Abbreviations and acronyms:

	ABM = Algemene beoordelingsmethodiek
	ADN = Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route CLP = Classification, Labelling and Packaging Regulation according to 1272/2008/EC IATA = International Air Transport Association IMDG = International Maritime Dangerous Goods Code LEL = Lower Explosive Limit/Lower Explosion Limit UEL = Upper Explosion Limit/Upper Explosive Limit REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
	BTT = Breakthrough time (maximum wearing time)
	DMEL = Derived Minimal Effect level
	DNEL = Derived No Effect Level
	EC50 = Median Effective Concentration

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	EL50 = Median effective level
	ErC50 = EC50 in terms of reduction of growth rate
	ErL50 = EL50 in terms of reduction of growth rate
	EWC = European waste catalogue
	LC50 = Median lethal concentration
	LD50 = Median lethal dose
	LL50 = Median lethal level
	NA = Not applicable
	NOEC = No observed effect concentration
	NOEL: no-observed-effect level
	NOELR = No observed effect loading rate
	NOAEC = No observed adverse effect concentration
	NOAEL = No observed adverse effect level
	N.O.S. = Not Otherwise Specified
	OEL = Occupational Exposure Limits - Short Term Exposure Limits (STELs)
	PNEC = Predicted No Effect Concentration
	Quantitative structure-activity relationship (QSAR)
	STOT = Specific Target Organ Toxicity
	TWA = time weighted average
	VOC = Volatile organic compounds
	WGK = Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act)

Sources of key data used to compile the datasheet : ECHA (European Chemicals Agency), LOLI. Supplier information.

Training advice : Training staff on good practice. Manipulations are to be done only by qualified and authorised persons.

Other information : Classification - Assessment method: CLP Calculation method (Article 9). Physicochemical hazard assessment: Information given is based on tests on the mixture itself.

Full text of H- and EUH-statements:

Aerosol 1	Aerosol, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Gas 1A	Flammable gases, Category 1A
Flam. Liq. 2	Flammable liquids, Category 2
H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

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Press. Gas (Comp.)	Gases under pressure : Compressed gas
Press. Gas (Liq.)	Gases under pressure : Liquefied gas
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878
Classification according to Regulation (EC) No. 1272/2008 [CLP]
Labelling according to Regulation (EC) No. 1272/2008 [CLP]

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