

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 14/02/2025 Revision date: 27/06/2024 Supersedes version of: 04/01/2023 Version: 2.1

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

1.1. Product identifier

Product name : TUFCUT

UFI : 1C40-490N-U00Q-WATT

Product code : UDS000111AE Vaporizer : Aerosol

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

Relevant identified uses

Main use category : Professional use Use of the substance/mixture : Iubricants

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

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

Adverse physicochemical, human health and environmental effects

Pressurised container: May burst if heated. Extremely flammable aerosol.

2.2. Label elements

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

Hazard pictograms (CLP)



GHS02

Signal word (CLP) : Danger

Hazard statements (CLP) : H222 - Extremely flammable aerosol.

H229 - Pressurised container: May burst if heated.

Precautionary statements (CLP) : 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.

P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C, 122

°F.

EUH-statements

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

P501 - Dispose of contents/container to a hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

: EUH208 - Contains Sulfonic acids, petroleum, calcium salts (61789-86-4), Benzenesulfonic acid, mono-C16-24-alkyl derivs, calcium salts (70024-69-0), Benzenesulfonic acid, C10-16-

alkyl derivs, calcium salts (68584-23-6). May produce an allergic reaction.

2.3. Other hazards

Contains no PBT and/or vPvB substances ≥ 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 substance(s) are 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

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Petroleum gases, liquefied; Petroleum gas; [A complex combination of hydrocarbons produced by the distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C3 through C7 and boiling in the range of approximately– 40°C to 80°C (– 40°F to 176°F).] (Propellant gas (Aerosol)) substance with national workplace exposure limit(s) (BE)	CAS-No.: 68476-85-7 EC-No.: 270-704-2 EC Index-No.: 649-202-00-6	30 – 60	Flam. Gas 1, H220 Press. Gas (Comp.), H280
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	CAS-No.: 68584-23-6 EC-No.: 271-529-4 REACH-no: 01-2119492627- 25	1 – 5	Skin Sens. 1B, H317
Sulfonic acids, petroleum, calcium salts	CAS-No.: 61789-86-4 EC-No.: 263-093-9 REACH-no: 01-2119488992- 18	< 1	Skin Sens. 1B, H317
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	CAS-No.: 70024-69-0 EC-No.: 274-263-7 REACH-no: 01-2119492616- 28	< 1	Skin Sens. 1B, H317
C16-18-(even numbered, saturated and unsaturated)-alkylamines	CAS-No.: 1213789-63-9 EC-No.: 627-034-4 REACH-no: 01-2119473797- 19	< 0,01	Acute Tox. 4 (Oral), H302 (ATE=1200 mg/kg bodyweight) Skin Corr. 1, H314 Eye Dam. 1, H318 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Specific concentration limits:			
Name	Product identifier	Specific concentration limits (%)	
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	CAS-No.: 68584-23-6 EC-No.: 271-529-4 REACH-no: 01-2119492627- 25	(10 ≤ C < 100) Skin Sens. 1B; H317	
Sulfonic acids, petroleum, calcium salts	CAS-No.: 61789-86-4 EC-No.: 263-093-9 REACH-no: 01-2119488992- 18	(10 ≤ C < 100) Skin Sens. 1B; H317	
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	CAS-No.: 70024-69-0 EC-No.: 274-263-7 REACH-no: 01-2119492616- 28	(10 ≤ C < 100) Skin Sens. 1B; H317	

Product subject to CLP Annex I, item 1.1.3.7. The disclosure rules of the components is modified in this case.

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

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If signs/symptoms develop,

get medical attention.

First-aid measures after skin contact : Wash skin with plenty of water. Seek medical attention if irritation develops.

First-aid measures after eye contact : Rinse eyes with water as a precaution. Seek medical attention if irritation develops.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

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

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Extremely flammable aerosol.

Explosion hazard : Pressurised container: May burst if heated.

Hazardous decomposition products in case of fire : During fire, gases hazardous to health may be formed.

5.3. Advice for firefighters

Firefighting instructions : Move containers from fire area if it can be done without personal risk. Use standard

firefighting procedures and consider the hazards of other involved materials.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Protective equipment : Wear appropriate protective equipment and clothing during clean-up. Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking.

For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

Emergency procedures : Evacuate unnecessary personnel. Ventilate area.

6.2. Environmental precautions

Avoid release to the environment. Avoid the spillage or runoff entering drains, sewers or watercourses.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Mechanically recover the product. For large spills, confine the spill in a dike and charge it with wet sand or earth for subsequent safe disposal. Following product recovery, flush area

with water. Take up small spills with dry chemical absorbent. Clean surface thoroughly to remove residual contamination.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For disposal of contaminated materials refer to section 13: "Disposal considerations".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Wear personal protective equipment. Ensure good ventilation of the work station. Keep

away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Avoid prolonged exposure. Handle in accordance with good

industrial hygiene and safety procedures.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the

product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F. Store in a

well-ventilated place. Keep cool. Keep container closed when not in use.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

National occupational exposure and biological limit values

Petroleum gases, liquefied; Petroleum gas; [A complex combination of hydrocarbons produced by the distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C3 through C7 and boiling in the range of approximately– 40°C to 80°C (– 40°F to 176°F).] (68476-85-7)

Belgium - Occupational Exposure Limits

Local name	Pétrole (gaz liquéfié) # LPG
OEL TWA	1826 mg/m³

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Petroleum gases, liquefied; Petroleum gas; [A complex combination of hydrocarbons produced by the distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C3 through C7 and boiling in the range of approximately– 40°C to 80°C (– 40°F to 176°F).] (68476-85-7)

	1000 ppm
Remark	C: la mention "C" signifie que l'agent en question relève du champ d'application du titre 2 relatif aux agents cancérigènes, mutagènes et reprotoiques du livre VI du code de bienêtre au travail. # C: de vermelding "C" betekent dat het betrokken agens valt onder het toepassingsgebied van titel 2 betreffende kankerverwekkende, mutagene en reprotoxische agentia van boek VI van de codex over het welzijn op het werk.
Regulatory reference	Koninklijk besluit/Arrêté royal 16/11/2023

DNEL and PNEC

Sulfonic acids, petroleum, calcium salts (61789-86-4)				
DNEL/DMEL (Workers)				
Long-term - systemic effects, dermal	3,33 mg/kg bodyweight/day			
Long-term - local effects, dermal	1,03 mg/cm ²			
Long-term - systemic effects, inhalation	11,75 mg/m³			
DNEL/DMEL (General population)				
Long-term - systemic effects,oral	0,8333 mg/kg bodyweight/day			
Long-term - systemic effects, inhalation	2,9 mg/m³			
Long-term - systemic effects, dermal	1667 mg/kg bodyweight/day			
Long-term - local effects, dermal	0,513 mg/cm ²			
PNEC (Water)				
PNEC aqua (freshwater)	1 mg/l			
PNEC aqua (marine water)	1 mg/l			
PNEC aqua (intermittent, freshwater) 10 mg/l				
PNEC (Sediment)				
PNEC sediment (freshwater)	226000000 mg/kg dwt			
PNEC sediment (marine water)	226000000 mg/kg dwt			
PNEC (Soil)				
PNEC soil	271000000 mg/kg dwt			
PNEC (Oral)				
PNEC oral (secondary poisoning)	16667 mg/kg food			
PNEC (STP)				
PNEC sewage treatment plant	1000 mg/l			
Benzenesulfonic acid, mono-C16-24-alkyl der	ivs., calcium salts (70024-69-0)			
DNEL/DMEL (Workers)				
Long-term - systemic effects, dermal	3,33 mg/kg bodyweight/day			
Long-term - local effects, dermal	1,03 mg/cm²			
Long-term - systemic effects, inhalation	11,75 mg/m³			
DNEL/DMEL (General population)				
Long-term - systemic effects,oral	0,8333 mg/kg bodyweight/day			

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts (70024-69-0)					
Long-term - systemic effects, inhalation	2,9 mg/m³				
Long-term - systemic effects, dermal	1,667 mg/kg bodyweight/day				
Long-term - local effects, dermal	0,513 mg/cm²				
PNEC (Water)					
PNEC aqua (freshwater)	1 mg/l				
PNEC aqua (marine water)	1 mg/l				
PNEC aqua (intermittent, freshwater)	10 mg/l				
PNEC (Sediment)					
PNEC sediment (freshwater)	226000000 mg/kg dwt				
PNEC sediment (marine water)	226000000 mg/kg dwt				
PNEC (Soil)					
PNEC soil	271000000 mg/kg dwt				
PNEC (Oral)					
PNEC oral (secondary poisoning)	16,667 mg/kg food				
PNEC (STP)					
PNEC sewage treatment plant	1000 mg/l				
Benzenesulfonic acid, C10-16-alkyl deri	ivs., calcium salts (68584-23-6)				
DNEL/DMEL (Workers)					
Long-term - systemic effects, dermal	3,33 mg/kg bodyweight/day				
Long-term - local effects, dermal	1,03 mg/cm ²				
Long-term - systemic effects, inhalation	11,75 mg/m³				
DNEL/DMEL (General population)					
Long-term - systemic effects,oral	0,8333 mg/kg bodyweight/day				
Long-term - systemic effects, inhalation	2,9 mg/m³				
Long-term - systemic effects, dermal	1667 mg/kg bodyweight/day				
Long-term - local effects, dermal	0,513 mg/cm ²				
PNEC (Water)					
PNEC aqua (freshwater)	1 mg/l				
PNEC aqua (marine water)	1 mg/l				
PNEC aqua (intermittent, freshwater)	10 mg/l				
PNEC (Sediment)					
PNEC sediment (freshwater)	226000000 mg/kg dwt				
PNEC sediment (marine water)	226000000 mg/kg dwt				
PNEC (Soil)					
PNEC soil	271000000 mg/kg dwt				
PNEC (Oral)					
PNEC oral (secondary poisoning)	16667 mg/kg food				
PNEC (STP)					
PNEC sewage treatment plant	1000 mg/l				

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

8.2. Exposure controls

Appropriate engineering controls

Appropriate engineering controls:

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Personal protection equipment

Personal protective equipment symbol(s):





Eye and face protection

Eye protection:

Use eye protection according to EN 166. Safety glasses with side shields.

Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Wear suitable gloves tested to EN374. The breakthrough time of the glove should be longer than the total duration of product use. If work lasts longer than the breakthrough time, gloves should be changed part-way through. Nitrile gloves are recommended.

Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. Approved organic vapour respirator. Filter type: A

Thermal hazards

Thermal hazard protection:

Not expected to present a significant hazard under anticipated conditions of normal use. Wear appropriate thermal protective clothing, when necessary.

Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid Colour : Brown.

Appearance : Propane/butane propelled liquid.

Molecular mass : Not available

Odour : Oil.

Odour threshold: Not availableMelting point: No data availableFreezing point: Not availableBoiling point: Not available

Flammability : Extremely flammable aerosol.

Explosive properties : Pressurised container: May burst if heated.

Lower explosion limit : Not available
Upper explosion limit : Not available
Flash point : > 100 °C
Auto-ignition temperature : > 200 °C
Decomposition temperature : Not available
pH : Not applicable

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Viscosity, kinematic : Not available Solubility : Insoluble in water. Partition coefficient n-octanol/water (Log Kow) : Not applicable Vapour pressure Not available Vapour pressure at 50°C Not available Density : 0,97 g/cm3 at 20 °C Relative density : 0,97 at 20 °C Relative vapour density at 20°C : Not available Particle characteristics : Not applicable

9.2. Other information

Information with regard to physical hazard classes

% of flammable ingredients : 30 - 60 %

Other safety characteristics

VOC content : 382 g/l

Additional information : For aerosols data for the product without propellant.

SECTION 10: Stability and reactivity

10.1. Reactivity

Extremely flammable aerosol. Pressurised container: May burst if heated.

10.2. Chemical stability

Stable under normal conditions.

Hardening time : Not applicable.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Carbon oxides (CO, CO2).

SECTION 11: Toxicological information

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

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

C16-18-(even numbered, saturated and unsaturated)-alkylamines (1213789-63-9)			
LD50 oral rat	1200 mg/kg		
LD50 dermal rat	> 2000 mg/kg bodyweight		
Sulfonic acids, petroleum, calcium salts (61789-86-4)			
LD50 oral rat	D50 oral rat > 16000 mg/kg bodyweight		
LD50 dermal rat > 2000 mg/kg LD50 dermal rabbit > 4000 mg/kg bodyweight			

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

according to the restrict regulation (20) 1001/2001	o amonada 2, 1.0gananon (22, 2220) 2			
Benzenesulfonic acid, mono-C16-24-	alkyl derivs., calcium salts (70024-69-0)			
LD50 oral rat	> 5000 mg/kg bodyweight			
LD50 dermal rabbit	> 5000 mg/kg bodyweight			
LC50 Inhalation - Rat	> 1,9 mg/l/4h			
Benzenesulfonic acid, C10-16-alkyl d	erivs., calcium salts (68584-23-6)			
LD50 oral rat > 16000 mg/kg bodyweight				
LD50 dermal rabbit	> 5000 mg/kg			
Skin corrosion/irritation	 Not classified (Based on available data, the classification criteria are not met) pH: Not applicable 			
C16-18-(even numbered, saturated ar	nd unsaturated)-alkylamines (1213789-63-9)			
рН	11,7			
Sulfonic acids, petroleum, calcium sa	alts (61789-86-4)			
рН	8			
Benzenesulfonic acid, mono-C16-24-	alkyl derivs., calcium salts (70024-69-0)			
pH	8,1			
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met) pH: Not applicable			
C16-18-(even numbered, saturated ar	nd unsaturated)-alkylamines (1213789-63-9)			
рН	11,7			
Sulfonic acids, petroleum, calcium sa	alts (61789-86-4)			
рН	8			
Benzenesulfonic acid, mono-C16-24-	alkyl derivs., calcium salts (70024-69-0)			
рН	8,1			
Respiratory or skin sensitisation	: Skin sensitization: Not classified (Based on available data, the classification criteria are not met). Respiratory sensitization: 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 Reproductive toxicity	 Not classified (Based on available data, the classification criteria are not met) Not classified (Based on available data, the classification criteria are not met) 			
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)			
C16-18-(even numbered, saturated ar	nd unsaturated)-alkylamines (1213789-63-9)			
STOT-single exposure	May cause respiratory irritation.			
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)			
C16-18-(even numbered, saturated ar	nd unsaturated)-alkylamines (1213789-63-9)			
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.			
Sulfonic acids, petroleum, calcium sa	alts (61789-86-4)			
NOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight			
NOAEL (dermal, rat/rabbit, 90 days)	> 1000 mg/kg bodyweight			
Benzenesulfonic acid, mono-C16-24-	alkyl derivs., calcium salts (70024-69-0)			
NOAEL (arel ret 00 deve)	500 mg/kg bodyweight OECD Guideline 407			
NOAEL (oral, rat, 90 days)	300 Hig/kg bodyweight OLOD Guideline 407			

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts (68584-23-6)		
NOAEL (oral, rat, 90 days)	500 mg/kg bodyweight	
NOAEL (dermal, rat/rabbit, 90 days) > 1000 mg/kg bodyweight		
Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)		
TUFCUT		
Vaporizer Aerosol		
C16-18-(even numbered, saturated and unsaturated)-alkylamines (1213789-63-9)		
Viscosity, kinematic 5,245 mm²/s		

11.2. Information on other hazards

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 substance(s) are 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 12: Ecological information

12.1. Toxicity

: The product is not considered harmful to aquatic organisms nor to cause long-term adverse Ecology - general effects in the environment.

Hazardous to the aquatic environment, short-term : Not classified (Based on available data, the classification criteria are not met)

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

(chronic)

Hazardous to the aquatic environment, long-term

(chronic)				
C16-18-(even numbered, saturated and unsaturated)-alkylamines (1213789-63-9)				
LC50 - Fish [1]	0,84 mg/l Danio rerio			
EC50 - Crustacea [1]	0,32 mg/l Daphnia magna			
EC50 72h - Algae [1]	0,46 mg/l Desmodesmus subspicatus			
LOEC (chronic)	0,032 mg/l Daphnia magna (21 d)			
NOEC (chronic)	0,013 mg/l Daphnia magna (21 d)			
Sulfonic acids, petroleum, calcium salts (61789-86-4)				
EC50 - Crustacea [1]	> 1000 mg/l			
EC50 72h - Algae [1]	> 1000 mg/l			
EC50 96h - Algae [1]	> 1000 mg/l			
Benzenesulfonic acid, mono-C16-24-alkyl der	ivs., calcium salts (70024-69-0)			
LC50 - Fish [1]	> 1000 mg/l Cyprinodon variegatus			
EC50 - Crustacea [1]	> 1000 mg/l Daphnia magna			
EC50 72h - Algae [1]	> 1000 mg/l Pseudokirchneriella subcapitata			
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts (68584-23-6)				
LC50 - Fish [1]	10000 mg/l			
EC50 72h - Algae [1]	> 1000 mg/l			
EC50 96h - Algae [1]	> 1000 mg/l			

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

12.2. Persistence and degradability

TUFCUT

Persistence and degradability Not established. No data is available on the degradability of this product.

12.3. Bioaccumulative potential

TUFCUT

Partition coefficient n-octanol/water (Log Kow)

Not applicable

Petroleum gases, liquefied; Petroleum gas; [A complex combination of hydrocarbons produced by the distillation of crude oil. It consists of hydrocarbons having carbon numbers predominantly in the range of C3 through C7 and boiling in the range of approximately– 40°C to 80°C (– 40°F to 176°F).] (68476-85-7)

Partition coefficient n-octanol/water (Log Pow)

2,3

Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts (70024-69-0)

Partition coefficient n-octanol/water (Log Pow) > 5,47

Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts (68584-23-6)

Partition coefficient n-octanol/water (Log Pow) > 4,46

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

TUFCUT

Results of PBT assessment

Contains no PBT and/or vPvB substances ≥ 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 substance(s) are 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

TUFCUT

Other information		No other effects known	
	Global warming potential (GWP)	1.50 (Fluorinated greenhouse gases - (EC) No 2024/573)	

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods

European List of Waste (LoW, EC 2000/532)

- : Dispose of contents/container in accordance with licensed collector's sorting instructions.
- : According to the European Waste Catalogue (EWC), Waste Codes are not product specific, but application specific Waste codes should be assigned by the user based on the application for which the product was used.

SECTION 14: Transport information

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

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID n	umber			
UN 1950	UN 1950	UN 1950	UN 1950	UN 1950
14.2. UN proper shippin	g name			
AEROSOLS	AEROSOLS	Aerosols, flammable	AEROSOLS	AEROSOLS
Transport document descr	iption			
UN 1950 AEROSOLS, 2.1, (D)	UN 1950 AEROSOLS, 2.1	UN 1950 Aerosols, flammable, 2.1	UN 1950 AEROSOLS, 2.1	UN 1950 AEROSOLS, 2
14.3. Transport hazard o	class(es)			
2.1	2.1	2.1	2.1	2.1
2	2	2	2	2
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental haz	ards			
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No EmS-No. (Fire): F-D EmS-No. (Spillage): S-U	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No

14.6. Special precautions for user

Overland transport

Classification code (ADR) : 5F

Special provisions (ADR) : 190, 327, 344, 625

Limited quantities (ADR) : 11
Excepted quantities (ADR) : E0

Packing instructions (ADR) : P207, LP200 Special packing provisions (ADR) : PP87, RR6, L2

Mixed packing provisions (ADR): MP9Transport category (ADR): 2Special provisions for carriage - Packages (ADR): V14Special 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, 381, 959

Limited quantities (IMDG) : SP277

Excepted quantities (IMDG) : E0

Packing instructions (IMDG) : P207, LP200

Special packing provisions (IMDG) : PP87, L2

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

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

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 : CW9, CW12

and handling (RID)

Colis express (express parcels) (RID) : CE2 Hazard identification number (RID) : 23

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

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 no substance(s) listed on the REACH Candidate List

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 (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

VOC Directive (2004/42)

VOC content : 382 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)

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:		
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
ATE	Acute Toxicity Estimate	
BCF	Bioconcentration factor	
BLV	Biological limit value	
BOD	Biochemical oxygen demand (BOD)	
COD	Chemical oxygen demand (COD)	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC-No.	European Community number	
EC50	Median effective concentration	
EN	European Standard	
IARC	International Agency for Research on Cancer	
IATA	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
LC50	Median lethal concentration	
LD50	Median lethal dose	
LOAEL	Lowest Observed Adverse Effect Level	
NOAEC	No-Observed Adverse Effect Concentration	
NOAEL	No-Observed Adverse Effect Level	
NOEC	No-Observed Effect Concentration	
OECD	Organisation for Economic Co-operation and Development	
OEL	Occupational Exposure Limit	
PBT	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	
STP	Sewage treatment plant	

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Abbreviations and acronyms:		
ThOD	Theoretical oxygen demand (ThOD)	
TLM	Median Tolerance Limit	
VOC	Volatile Organic Compounds	
CAS-No.	Chemical Abstract Service number	
N.O.S.	Not Otherwise Specified	
vPvB	Very Persistent and Very Bioaccumulative	
ED	Endocrine disruptor	

Full text of H- and EUH-statements:		
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Aerosol 1	Aerosol, Category 1	
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 Dam. 1	Serious eye damage/eye irritation, Category 1	
Flam. Gas 1	Flammable gases, Category 1	
Press. Gas (Comp.)	Gases under pressure : Compressed gas	
Skin Corr. 1	Skin corrosion/irritation, Category 1	
Skin Sens. 1B	Skin sensitisation, category 1B	
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.	
H304	May be fatal if swallowed and enters airways.	
H314	Causes severe skin burns and eye damage.	
H317	May cause an allergic skin reaction.	
H318	Causes serious eye damage.	
H335	May cause respiratory irritation.	
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.	
EUH208	Contains Sulfonic acids, petroleum, calcium salts (61789-86-4), Benzenesulfonic acid, mono-C16-24-alkyl derivs, calcium salts (70024-69-0), Benzenesulfonic acid, C10-16-alkyl derivs, calcium salts (68584-23-6). May produce an allergic reaction.	

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

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