Safety Data Sheet

According to Regulation (EC) No 1907/2006

TASKI Tapi Spot 1 C4n

Revision: 2022-05-04 **Version:** 02.0

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

1.1 Product identifier
Trade name: TASKI Tapi Spot 1 C4n

UFI: CWSA-D1U0-P00P-654K

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

Product use:	Carpet / Upholstery cleaner. For professional use only.
Uses advised against:	Uses other than those identified are not recommended.

SWED - Sector-specific worker exposure description :
AISE_SWED_PW_11_2
AISE_SWED_PW_19_2

1.3 Details of the supplier of the safety data sheet
Diversey Europe Operations BV, Maarssenbroeksedijk 2, 3542DN Utrecht, The Netherlands

Contact details
Tandur Hf.
Hesthálsi 12, 110 Reykjavík
Tel. 5101200, Email: tandur@tandur.is

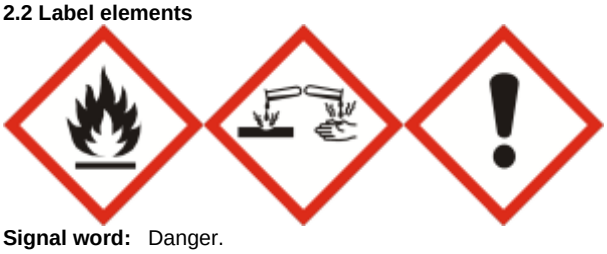
1.4 Emergency telephone number
Seek medical advice (show the label or safety data sheet where possible).
Poison Center: (+354) 543-2222
Emergency services: 112.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Aerosol 1 (H222)
STOT SE 3 (H336)
Skin Irrit. 2 (H315)
Eye Dam. 1 (H318)
Aquatic Chronic 3 (H412)

2.2 Label elements



Signal word: Danger.

Contains ethyl L-lactate (Ethyl L-Lactate), propan-2-ol (Isopropyl Alcohol), hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic (C7 Alkane/Cycloalkane)

Hazard statements:
H222 - Extremely flammable aerosol.
H229 - Pressurised container: May burst if heated.
H336 - May cause drowsiness or dizziness.
H315 - Causes skin irritation.
H318 - Causes serious eye damage.
H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements:

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 - Do not spray on an open flame or other ignition source.
P251 - Do not pierce or burn, even after use.
P280 - Wear eye or face protection.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 - Immediately call a POISON CENTRE, doctor or physician.
P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

2.3 Other hazards
No other hazards known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Ingredient(s)	EC number	CAS number	REACH number	Classification	Notes	Weight percent
butane	203-448-7	106-97-8	01-2119474691-32	Flam. Gas 1 (H220) Press. Gas (Comp.) (H280)		30-50
propan-2-ol	200-661-7	67-63-0	01-2119457558-25	Flam. Liq. 2 (H225) STOT SE 3 (H336) Eye Irrit. 2 (H319)		20-30
hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic	927-510-4	-	01-2119475515-33	Flam. Liq. 2 (H225) Asp. Tox. 1 (H304) STOT SE 3 (H336) Skin Irrit. 2 (H315) Aquatic Chronic 2 (H411)		10-20
propane	200-827-9	74-98-6	01-2119486944-21	Flam. Gas 1 (H220) Press. Gas (Comp.) (H280)		10-20
ethyl L-lactate	211-694-1	687-47-8	01-2119516234-49	Flam. Liq. 3 (H226) STOT SE 3 (H335) Eye Dam. 1 (H318)		3-10
isobutane	200-857-2	75-28-5	01-2119485395-27	Flam. Gas 1 (H220) Press. Gas (Comp.) (H280)		0.1-1

Workplace exposure limit(s), if available, are listed in subsection 8.1.
ATE, if available, are listed in section 11.
For the full text of the H and EUH phrases mentioned in this Section, see Section 16..

SECTION 4: First aid measures

4.1 Description of first aid measures
Inhalation: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTRE, doctor or physician if you feel unwell.
Skin contact: Take off immediately all contaminated clothing and wash it before reuse.
Eye contact: Hold eyelids apart and flush eyes with plenty of lukewarm water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE, doctor or physician.
Ingestion: Rinse mouth. Immediately drink 1 glass of water. Never give anything by mouth to an unconscious person. Get medical attention or advice if you feel unwell.
Self-protection of first aider: Consider personal protective equipment as indicated in subsection 8.2.

4.2 Most important symptoms and effects, both acute and delayed
Inhalation: May cause drowsiness or dizziness.
Skin contact: Causes irritation. Direct contact can damage skin by freezing.
Eye contact: Direct contact can damage the eye by freezing. Causes severe or permanent damage.
Ingestion: No known effects or symptoms in normal use.

4.3 Indication of any immediate medical attention and special treatment needed
No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

SECTION 5: Firefighting measures

5.1 Extinguishing media
Carbon dioxide. Dry powder. Water spray jet. Fight larger fires with water spray jet or alcohol-resistant foam.

5.2 Special hazards arising from the substance or mixture

Cool endangered packaging with water spray jet.

5.3 Advice for firefighters
As in any fire, wear self contained breathing apparatus and suitable protective clothing including gloves and eye/face protection.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Ensure adequate ventilation. Do not breathe dust or vapour. Wear eye/face protection. Repeated or prolonged contact:. Wear suitable gloves.

6.2 Environmental precautions
No special environmental precautions required.

6.3 Methods and material for containment and cleaning up
Ensure adequate ventilation. Absorb liquid components with liquid-binding material.

6.4 Reference to other sections
For personal protective equipment see subsection 8.2. For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Measures to prevent fire and explosions:
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50° C. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects. Use non-sparking tools.

Measures required to protect the environment:
For environmental exposure controls see subsection 8.2.

Advices on general occupational hygiene:
Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not mix with other products unless adviced by Diversey. Wash face, hands and any exposed skin thoroughly after handling. Take off contaminated clothing. Wash contaminated clothing before reuse. Store used personal protective equipment separately. Avoid contact with skin and eyes. Do not breathe vapours. Do not breathe spray. Use only outdoors or in a well-ventilated area. See chapter 8.2, Exposure controls / Personal protection.

7.2 Conditions for safe storage, including any incompatibilities
Store in accordance with local and national regulations. Keep away from heat and direct sunlight.
For conditions to avoid see subsection 10.4. For incompatible materials see subsection 10.5.

Seveso - Lower Tier requirements (tonnes): 150
Seveso - Upper Tier requirements (tonnes): 500

7.3 Specific end use(s)
No specific advice for end use available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters
Workplace exposure limits

Air limit values, if available:

Ingredient(s)	Long term value(s)	Short term value(s)
butane	500 ppm 1200 mg/m³	
propan-2-ol	200 ppm 490 mg/m³	
propane	1000 ppm 1800 mg/m³	

Biological limit values, if available:

Recommended monitoring procedures, if available:

Additional exposure limits under the conditions of use, if available:

DNEL/DMEL and PNEC values
Human exposure
DNEL/DMEL oral exposure - Consumer (mg/kg bw)

Ingredient(s)	Short term - Local	Short term - Systemic	Long term - Local	Long term - Systemic

	effects	effects	effects	effects
butane	No data available	No data available	No data available	No data available
propan-2-ol	-	-	-	26
hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic	-	-	-	149
propane	No data available	No data available	No data available	No data available
ethyl L-lactate	No data available	No data available	No data available	No data available
isobutane	No data available	No data available	No data available	No data available

DNEL/DMEL dermal exposure - Worker

Ingredient(s)	Short term - Local effects	Short term - Systemic effects (mg/kg bw)	Long term - Local effects	Long term - Systemic effects (mg/kg bw)
butane	No data available	No data available	No data available	No data available
propan-2-ol	-	-	-	888
hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic	No data available	-	No data available	300
propane	No data available	No data available	No data available	No data available
ethyl L-lactate	No data available	No data available	No data available	No data available
isobutane	No data available	No data available	No data available	No data available

DNEL/DMEL dermal exposure - Consumer

Ingredient(s)	Short term - Local effects	Short term - Systemic effects (mg/kg bw)	Long term - Local effects	Long term - Systemic effects (mg/kg bw)
butane	No data available	No data available	No data available	No data available
propan-2-ol	-	-	-	319
hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic	No data available	-	No data available	149
propane	No data available	No data available	No data available	No data available
ethyl L-lactate	No data available	No data available	No data available	No data available
isobutane	No data available	No data available	No data available	No data available

DNEL/DMEL inhalatory exposure - Worker (mg/m³)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
butane	No data available	No data available	No data available	No data available
propan-2-ol	-	-	-	500
hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic	-	-	-	2085
propane	No data available	No data available	No data available	No data available
ethyl L-lactate	No data available	No data available	No data available	No data available
isobutane	No data available	No data available	No data available	No data available

DNEL/DMEL inhalatory exposure - Consumer (mg/m³)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
butane	No data available	No data available	No data available	No data available
propan-2-ol	-	-	-	89
hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic	-	-	-	477
propane	No data available	No data available	No data available	No data available
ethyl L-lactate	No data available	No data available	No data available	No data available
isobutane	No data available	No data available	No data available	No data available

Environmental exposure

Environmental exposure - PNEC

Ingredient(s)	Surface water, fresh (mg/l)	Surface water, marine (mg/l)	Intermittent (mg/l)	Sewage treatment plant (mg/l)
butane	No data available	No data available	No data available	No data available
propan-2-ol	140.9	140.9	140.9	2251
hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic	-	-	-	-
propane	No data available	No data available	No data available	No data available
ethyl L-lactate	No data available	No data available	No data available	No data available
isobutane	No data available	No data available	No data available	No data available

Environmental exposure - PNEC, continued

Ingredient(s)	Sediment, freshwater (mg/kg)	Sediment, marine (mg/kg)	Soil (mg/kg)	Air (mg/m³)
butane	No data available	No data available	No data available	No data available
propan-2-ol	552	552	28	-
hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic	-	-	-	-
propane	No data available	No data available	No data available	No data available
ethyl L-lactate	No data available	No data available	No data available	No data available
isobutane	No data available	No data available	No data available	No data available

8.2 Exposure controls

The following information applies for the uses indicated in subsection 1.2 of the Safety Data Sheet.
If available, please refer to the product information sheet for application and handling instructions.
Normal use conditions are assumed for this section.

Recommended safety measures for handling the undiluted product:

Appropriate engineering controls: Provide a good standard of general ventilation.
Appropriate organisational controls: Avoid direct contact and/or splashes where possible. Train personnel. Users are advised to consider national Occupational Exposure Limits or other equivalent values, if available.

REACH use scenarios considered for the undiluted product:

	SWED - Sector-specific worker exposure description	LCS	PROC	Duration (min)	ERC
Spray application	AISE_SWED_PW_11_2	PW	PROC 11	60	ERC8a
Manual application	AISE_SWED_PW_19_2	PW	PROC 19	480	ERC8a

Personal protective equipment
Eye / face protection: Safety glasses or goggles (EN 166).
Hand protection: Rinse and dry hands after use. For prolonged contact protection for the skin may be necessary. Repeated or prolonged contact: Chemical-resistant protective gloves (EN 374). Verify instructions regarding permeability and breakthrough time, as provided by the gloves supplier. Consider specific local use conditions, such as risk of splashes, cuts, contact time and temperature.
Suggested gloves for prolonged contact: Material: butyl rubber Penetration time: ≥ 480 min Material thickness: ≥ 0.7 mm
Suggested gloves for protection against splashes: Material: nitrile rubber Penetration time: ≥ 30 min Material thickness: ≥ 0.4 mm
In consultation with the supplier of protective gloves a different type providing similar protection may be chosen.
Body protection: No special requirements under normal use conditions.
Respiratory protection: Respiratory protection is not normally required. However, inhalation of vapour, spray, gas or aerosols should be avoided. Trigger spray bottle application: No special requirements under normal use conditions. Apply technical measures to comply with the occupational exposure limits, if available

Environmental exposure controls: No special requirements under normal use conditions.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties
Information in this section refers to the product, unless it is specifically stated that substance data is listed

	Method / remark
Physical state: Aerosol	
Colour: Clear , Colourless	
Odour: Product specific	
Odour threshold: Not applicable	
Melting point/freezing point (°C): Not determined	Not relevant to classification of this product
Initial boiling point and boiling range (°C): Not determined	Not applicable as product is an aerosol

Substance data, boiling point

Ingredient(s)	Value (°C)	Method	Atmospheric pressure (hPa)
butane	No data available		
propan-2-ol	82	Method not given	1013
hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic	No data available		
propane	No data available		
ethyl L-lactate	No data available		
isobutane	No data available		

	Method / remark
Flammability (solid, gas): Not determined	
Flammability (liquid): Not applicable. Not flammable.	
Flash point (°C): Not applicable as product is an aerosol > 100 °C	Weight of evidence
Sustained combustion: Not applicable. *(UN Manual of Tests and Criteria, section 32, L.2)*	
Lower and upper explosion limit/flammability limit (%): Not determined	See substance data

Substance data, flammability or explosive limits, if available:

Ingredient(s)	Lower limit (% vol)	Upper limit (% vol)
propan-2-ol	2	13

Method / remark

Autoignition temperature: Not determined
Decomposition temperature: Not applicable.
pH: Not applicable No information available.
Kinematic viscosity: Not determined
Solubility in / Miscibility with Water: Fully miscible

Substance data, solubility in water

Ingredient(s)	Value (g/l)	Method	Temperature (°C)
butane	No data available		
propan-2-ol	Soluble	Method not given	
hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic	No data available		
propane	No data available		
ethyl L-lactate	No data available		
isobutane	No data available		

Substance data, partition coefficient n-octanol/water (log Kow): see subsection 12.3

Method / remark

Vapour pressure: Not determined — See substance data

Substance data, vapour pressure

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
butane	No data available		
propan-2-ol	4200	Method not given	20
hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic	No data available		
propane	No data available		
ethyl L-lactate	No data available		
isobutane	No data available		

Method / remark

Relative density: ≈ 0.77 (20 °C) — OECD 109 (EU A.3)
Relative vapour density: No data available. — Not relevant to classification of this product
Particle characteristics: No data available. — Not applicable to liquids.

9.2 Other information
9.2.1 Information with regard to physical hazard classes
Explosive properties: Vapours may form explosive mixtures with air. Not explosive.
Oxidising properties: Not oxidising.
Corrosion to metals: Not corrosive

9.2.2 Other safety characteristics
No other relevant information available.

SECTION 10: Stability and reactivity

10.1 Reactivity
No reactivity hazards known under normal storage and use conditions.

10.2 Chemical stability
Stable under normal storage and use conditions.

10.3 Possibility of hazardous reactions
No hazardous reactions known under normal storage and use conditions.

10.4 Conditions to avoid
None known under normal storage and use conditions.

10.5 Incompatible materials
None known under normal use conditions.

10.6 Hazardous decomposition products
None known under normal storage and use conditions.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Mixture data:.

Relevant calculated ATE(s):
ATE - Oral (mg/kg): >2000

Substance data, where relevant and available, are listed below:.

Acute toxicity
Acute oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)	ATE (mg/kg)
butane		No data available				Not established
propan-2-ol	LD_{50}	5840	Rat	OECD 401 (EU B.1)		Not established
hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic	LD_{50}	> 5840	Rat	OECD 401 (EU B.1)		Not established
propane		No data available				Not established
ethyl L-lactate		No data available				Not established
isobutane		No data available				Not established

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)	ATE (mg/kg)
butane		No data available				Not established
propan-2-ol	LD_{50}	> 2000	Rabbit	Method not given		Not established
hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic	LD_{50}	> 2920	Rat	OECD 402 (EU B.3)		Not established
propane		No data available				Not established
ethyl L-lactate		No data available				Not established
isobutane		No data available				Not established

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
butane		No data available			
propan-2-ol	LC_{50}	> 25 (vapour)	Rat	OECD 403 (EU B.2)	6
hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic	LC_{50}	23.3	Rat	OECD 403 (EU B.2)	4
propane		No data available			
ethyl L-lactate		No data available			
isobutane		No data available			

Acute inhalative toxicity, continued

Ingredient(s)	ATE - inhalation, dust (mg/l)	ATE - inhalation, mist (mg/l)	ATE - inhalation, vapour (mg/l)	ATE - inhalation, gas (mg/l)
butane	Not established	Not established	Not established	Not established
propan-2-ol	Not established	Not established	Not established	Not established
hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic	Not established	Not established	Not established	Not established
propane	Not established	Not established	Not established	Not established
ethyl L-lactate	Not established	Not established	Not established	Not established
isobutane	Not established	Not established	Not established	Not established

Irritation and corrosivity
Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
butane	No data available			
propan-2-ol	Not irritant	Rabbit	OECD 404 (EU B.4)	

hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic	Irritant			
propane	No data available			
ethyl L-lactate	No data available			
isobutane	No data available			

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
butane	No data available			
propan-2-ol	Irritant	Rabbit	OECD 405 (EU B.5)	
hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic	Not corrosive or irritant			
propane	No data available			
ethyl L-lactate	No data available			
isobutane	No data available			

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
butane	No data available			
propan-2-ol	No data available			
hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic	No data available			
propane	No data available			
ethyl L-lactate	No data available			
isobutane	No data available			

Sensitisation

Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
butane	No data available			
propan-2-ol	Not sensitising	Guinea pig	OECD 406 (EU B.6) / Buehler test	
hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic	Not sensitising			
propane	No data available			
ethyl L-lactate	No data available			
isobutane	No data available			

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
butane	No data available			
propan-2-ol	No data available			
hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic	Not sensitising			
propane	No data available			
ethyl L-lactate	No data available			
isobutane	No data available			

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Mutagenicity

Ingredient(s)	Result (in-vitro)	Method (in-vitro)	Result (in-vivo)	Method (in-vivo)
butane	No data available		No data available	
propan-2-ol	No evidence for mutagenicity, negative test results No evidence of genotoxicity, negative test results	OECD 471 (EU B.12/13)	No evidence of genotoxicity, negative test results	OECD 474 (EU B.12)
hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic	No data available		No data available	
propane	No data available		No data available	
ethyl L-lactate	No data available		No data available	
isobutane	No data available		No data available	

Carcinogenicity

Ingredient(s)	Effect
butane	No data available
propan-2-ol	No evidence for carcinogenicity, negative test results
hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic	No data available
propane	No data available
ethyl L-lactate	No data available
isobutane	No data available

Toxicity for reproduction

Ingredient(s)	Endpoint	Specific effect	Value (mg/kg bw/d)	Species	Method	Exposure time	Remarks and other effects reported
butane			No data available				
propan-2-ol			No data available				
hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic			No data available				
propane			No data available				
ethyl L-lactate			No data available				
isobutane			No data available				

Repeated dose toxicity

Sub-acute or sub-chronic oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
butane		No data available				
propan-2-ol		No data available				
hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic		No data available				
propane		No data available				
ethyl L-lactate		No data available				
isobutane		No data available				

Sub-chronic dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
butane		No data available				
propan-2-ol		No data available				
hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic		No data available				
propane		No data available				
ethyl L-lactate		No data available				
isobutane		No data available				

Sub-chronic inhalation toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
butane		No data available				
propan-2-ol		No data available				
hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic		No data available				
propane		No data available				
ethyl L-lactate		No data available				
isobutane		No data available				

Chronic toxicity

Ingredient(s)	Exposure route	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time	Specific effects and organs affected	Remark
butane			No data available					
propan-2-ol			No data available					
hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic			No data available					
propane			No data available					
ethyl L-lactate			No data					

			available					
isobutane			No data available					

STOT-single exposure

Ingredient(s)	Affected organ(s)
butane	No data available
propan-2-ol	Central nervous system
hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic	No data available
propane	No data available
ethyl L-lactate	No data available
isobutane	No data available

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
butane	No data available
propan-2-ol	No data available
hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic	No data available
propane	No data available
ethyl L-lactate	No data available
isobutane	No data available

Aspiration hazard
Substances with an aspiration hazard (H304), if any, are listed in section 3.

Potential adverse health effects and symptoms
Effects and symptoms related to the product, if any, are listed in subsection 4.2.

11.2 Information on other hazards
11.2.1 Endocrine disrupting properties
Endocrine disrupting properties - Human data, if available:

11.2.2 Other information
No other relevant information available.

SECTION 12: Ecological information

12.1 Toxicity

No data is available on the mixture.

Substance data, where relevant and available, are listed below:

Aquatic short-term toxicity
Aquatic short-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
butane		No data available			
propan-2-ol	LC_{50}	> 100	*Pimephales promelas*	Method not given	48
hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic	LC_{50}	> 13.4	*Oncorhynchus mykiss*		
propane		No data available			
ethyl L-lactate		No data available			
isobutane		No data available			

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
butane		No data available			
propan-2-ol	EC_{50}	> 100	*Daphnia magna Straus*	Method not given	48
hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic	EC_{50}	3	*Daphnia magna Straus*	Method not given	48
propane		No data available			
ethyl L-lactate		No data			

		available			
isobutane		No data available			

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
butane		No data available			
propan-2-ol	EC_{50}	> 100	*Scenedesmus quadricauda*	Method not given	72
hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic	EC_{50}	10-30	*Pseudokirchneriella subcapitata*	Method not given	Brenntag SDS 2013
propane		No data available			
ethyl L-lactate		No data available			
isobutane		No data available			

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
butane		No data available			
propan-2-ol		No data available			
hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic		No data available			
propane		No data available			
ethyl L-lactate		No data available			
isobutane		No data available			

Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
butane		No data available			
propan-2-ol	EC_{50}	> 1000	*Activated sludge*	Method not given	
hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic		No data available			
propane		No data available			
ethyl L-lactate		No data available			
isobutane		No data available			

Aquatic long-term toxicity

Aquatic long-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
butane		No data available				
propan-2-ol		No data available				
hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic		No data available				
propane		No data available				
ethyl L-lactate		No data available				
isobutane		No data available				

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
butane		No data available				
propan-2-ol		No data available				
hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic		No data				

		available				
propane		No data available				
ethyl L-lactate		No data available				
isobutane		No data available				

Aquatic toxicity to other aquatic benthic organisms, including sediment-dwelling organisms, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw sediment)	Species	Method	Exposure time (days)	Effects observed
butane		No data available				
propan-2-ol		No data available				
hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic		No data available				
propane		No data available				
ethyl L-lactate		No data available				
isobutane		No data available				

Terrestrial toxicity

Terrestrial toxicity - soil invertebrates, including earthworms, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
propan-2-ol		No data available				

Terrestrial toxicity - plants, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
propan-2-ol		No data available				

Terrestrial toxicity - birds, if available:

Ingredient(s)	Endpoint	Value	Species	Method	Exposure time (days)	Effects observed
propan-2-ol		No data available				

Terrestrial toxicity - beneficial insects, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
propan-2-ol		No data available				

Terrestrial toxicity - soil bacteria, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
propan-2-ol		No data available				

12.2 Persistence and degradability

Abiotic degradation

Abiotic degradation - photodegradation in air, if available:

Ingredient(s)	Half-life time	Method	Evaluation	Remark
propan-2-ol	No data available			

Abiotic degradation - hydrolysis, if available:

Ingredient(s)	Half-life time in fresh water	Method	Evaluation	Remark
propan-2-ol	No data available			

Abiotic degradation - other processes, if available:

Ingredient(s)	Type	Half-life time	Method	Evaluation	Remark

propan-2-ol		No data available			

Biodegradation

Ready biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT_{50}	Method	Evaluation
butane					Readily biodegradable
propan-2-ol			95 % in 21 day(s)	OECD 301E	Readily biodegradable
hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic	Activated sludge, aerobe	Oxygen depletion	> 90 % in 28 day(s)	OECD 301F	Readily biodegradable
propane					Readily biodegradable
ethyl L-lactate				OECD 301D	Readily biodegradable
isobutane					Readily biodegradable

Ready biodegradability - anaerobic and marine conditions, if available:

Ingredient(s)	Medium & Type	Analytical method	DT_{50}	Method	Evaluation
propan-2-ol					No data available

Degradation in relevant environmental compartments, if available:

Ingredient(s)	Medium & Type	Analytical method	DT_{50}	Method	Evaluation
propan-2-ol					No data available

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

Ingredient(s)	Value	Method	Evaluation	Remark
butane	No data available			
propan-2-ol	0.05	OECD 107	No bioaccumulation expected	
hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic	No data available			
propane	No data available			
ethyl L-lactate	No data available			
isobutane	No data available			

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
butane	No data available				
propan-2-ol	No data available				
hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic	No data available				
propane	No data available				
ethyl L-lactate	No data available				
isobutane	No data available				

12.4 Mobility in soil

Adsorption/Desorption to soil or sediment

Ingredient(s)	Adsorption coefficient Log Koc	Desorption coefficient Log Koc(des)	Method	Soil/sediment type	Evaluation
butane	No data available				
propan-2-ol	No data available				Potential for mobility in soil, soluble in water
hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic	No data available				
propane	No data available				
ethyl L-lactate	No data available				
isobutane	No data available				

12.5 Results of PBT and vPvB assessment

Substances that fulfill the criteria for PBT/vPvB, if any, are listed in section 3.

12.6 Endocrine disrupting properties

Endocrine disrupting properties - Environmental effects, if available:

12.7 Other adverse effects

No other adverse effects known.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste from residues / unused products: The concentrated contents or contaminated packaging should be disposed of by a certified handler or according to the site permit. Release of waste to sewers is discouraged. The cleaned packaging material is suitable for energy recovery or recycling in line with local legislation.

Empty packaging

Recommendation: Dispose of observing national or local regulations.

Suitable cleaning agents: Water, if necessary with cleaning agent.

SECTION 14: Transport information

Land transport (ADR/RID), Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR)

14.1 UN number: 1950

14.2 UN proper shipping name:

Aerosols (heptanes)

Aerosols (heptanes)

14.3 Transport hazard class(es):

Transport hazard class (and subsidiary risks): 2.1

14.4 Packing group:

14.5 Environmental hazards:

Environmentally hazardous: No

Marine pollutant: No

14.6 Special precautions for user: None known.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: The product is not transported in bulk tankers.

Other relevant information:

ADR

Classification code: 5F

Tunnel restriction code: D

IMO/IMDG

EmS: F-D, S-U

The product has been classified, labelled and packaged in accordance with the requirements of ADR and the provisions of the IMDG Code
Transport regulations include special provisions for certain classes of dangerous goods packed in limited quantities.

SECTION 15: Regulatory information

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

EU regulations:

- Regulation (EC) No. 1907/2006 - REACH
- Regulation (EC) No 1272/2008 - CLP
- Regulation (EC) No. 648/2004 - Detergents regulation
- Directive 75/324/EEC on aerosol dispensers
- substances identified as having endocrine disrupting properties in accordance with the criteria set out in Delegated Regulation (EU) 2017/2100 or Regulation (EU) 2018/605
- Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)
- International Maritime Dangerous Goods (IMDG) Code

Authorisations or restrictions (Regulation (EC) No 1907/2006, Title VII respectively Title VIII): Not applicable.

Ingredients according to EC Detergents Regulation 648/2004

aliphatic hydrocarbons >= 30 %

Seveso - Classification: P3a - FLAMMABLE AEROSOLS

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out on the mixture

SECTION 16: Other information

The information in this document is based on our best present knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally binding contract

SDS code: MS1004781 **Version:** 02.0 **Revision:** 2022-05-04

Reason for revision:
Overall design adjusted in accordance with Amendment 2020/878, Annex II of Regulation (EC) No 1907/2006, This data sheet contains changes from the previous version in section(s):, 1, 2, 3, 6, 7, 8, 9, 11, 12, 13, 16

Classification procedure
The classification of the mixture is in general based on calculation methods using substance data, as required by Regulation (EC) No 1272/2008. If for certain classifications data on the mixture is available or for example bridging principles or weight of evidence can be used for classification, this will be indicated in the relevant sections of the Safety Data Sheet. See section 9 for physical chemical properties, section 11 for toxicological information and section 12 for ecological information.

Full text of the H and EUH phrases mentioned in section 3:
- H220 - Extremely flammable gas.
- H225 - Highly flammable liquid and vapour.
- H226 - Flammable liquid and vapour.
- H280 - Contains gas under pressure; may explode if heated.
- H304 - May be fatal if swallowed and enters airways.
- H315 - Causes skin irritation.
- H318 - Causes serious eye damage.
- H319 - Causes serious eye irritation.
- H335 - May cause respiratory irritation.
- H336 - May cause drowsiness or dizziness.
- H411 - Toxic to aquatic life with long lasting effects.

Abbreviations and acronyms:
- AISE - The international Association for Soaps, Detergents and Maintenance Products
- ATE - Acute Toxicity Estimate
- DNEL - Derived No Effect Limit
- EC50 - effective concentration, 50%
- ERC - Environmental release categories
- EUH - CLP Specific hazard statement
- LC50 - Lethal Concentration, 50% / Median Lethal Concentration
- LCS - Life cycle stage
- LD50 - Lethal Dose, 50% / Median Lethal dose
- NOAEL - No observed adverse effect level
- NOEL - No observed effect level
- OECD - Organisation for Economic Cooperation and Development
- PBT - Persistent, Bioaccumulative and Toxic
- PNEC - Predicted No Effect Concentration
- PROC - Process categories
- REACH number - REACH registration number, without supplier specific part
- vPvB - very Persistent and very Bioaccumulative

End of Safety Data Sheet