Current version : 1.0.5, issued: 10.05.2024

Replaced version: 1.0.4, issued: 25.11.2022

Region: GB

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

1.1 Product identifier

Trade name

KRONES celerol DG 7800

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

Uses advised against No data available.

1.3 Details of the supplier of the safety data sheet

Address

KIC KRONES Internationale Cooperationsgesellschaft mbH Böhmerwaldstraße 5 93073 Neutraubling Telephone no. +49 9401 70-3020

e-mail kic@kic-krones.com

Advice on Safety Data Sheet sdb info@umco.de

1.4 Emergency telephone number

For medical advice (in German and English): +49 (0)551 192 40 (Giftinformationszentrum Nord) In case of transport incidents and other emergencies: +44 (0) 1235 239 670 (NCEC, National Chemical Emergency Centre)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008 (CLP) Aerosol 1; H222

Asp. Tox. 1; H304

Classification information

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

2.2 Label elements

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

Hazard pictograms



Signal word Danger

Hazardous component(s) to be indicated on label: Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics

Hazard statement(s)

H222 H229 Extremely flammable aerosol. Pressurised container: May burst if heated. Current version : 1.0.5, issued: 10.05.2024

Trade name: KRONES celerol DG 7800

Hazard statements EUH066	s (EU) Repeated exposure may cause skin dryness or cracking.
Precautionary stat	ement(s)
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 no expose to temperatures exceeding 50°C/122°F.

Replaced version: 1.0.4, issued: 25.11.2022

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Labelling information

The labelling of an aspiration hazard (Asp. Tox. 1; H304) is not mandatory for aerosols and containers with a sealed spray attachment (Regulation (EC) 1272/2008, Annex 1, 1.3.3).

2.3 Other hazards

No data available.

SECTION 3: Composition/information on ingredients

3.1 **Substances**

Not applicable. The product is not a substance.

3.2 **Mixtures**

Hazardous ingredients

No	Substance name		Addit	ional information	on	
	CAS / EC / Index /	Classification (EC) 1272/2008 (CLP)	Conc	entration		%
	REACH no					
1	ethanol					
	64-17-5	Flam. Liq. 2; H225	>=	25.00 - <	50.00	wt%
	200-578-6	Eye Irrit. 2; H319				
	603-002-00-5					
	01-2119457610-43					
2	butane					
	106-97-8	Flam. Gas 1A; H220	>=	10.00 - <	25.00	wt%
	203-448-7	Press. Gas liq.; H280				
	601-004-00-0					
	01-2119474691-32					
3	propane					
	74-98-6	Flam. Gas 1A; H220	>=	10.00 - <	25.00	wt%
	200-827-9	Press. Gas compr.; H280				
	601-003-00-5					
	01-2119486944-21					
4	Hydrocarbons, C9-	C10, n-alkanes, isoalkanes, cyclics, <2%				
	aromatics					
	-	Aquatic Chronic 3; H412	>=	10.00 - <	25.00	wt%
	927-241-2	Asp. Tox. 1; H304				
	-	Flam. Liq. 3; H226				
	01-2119471843-32	STOT SE 3; H336				
		EUH066				
5	isobutane					
	75-28-5	Flam. Gas 1A; H220	>=	10.00 - <	25.00	wt%
	200-857-2	Press. Gas compr.; H280				
	601-004-00-0					
	01-2119485395-27					
6	propan-2-ol					
	67-63-0	Eye Irrit. 2; H319	<	5.00		wt%
	200-661-7	Flam. Liq. 2; H225				
	603-117-00-0	STOT SE 3; H336				
	01-2119457558-25	and EUH-phrases: pls. see section 16				

ull Text for all H-phrases and EUH-phrases: pls. see section 16

No	Note	Specific concentration limits	M-factor	M-factor
			(acute)	(chronic)

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1	-	Eye Irrit. 2; H319: C >= 50%	-	-
2	C, U	-	-	-
5	U, C	-	-	-
Full text for the notes: pls see section 16 "Notes relating to the identification, classification and labelling of substances				

Full text for the notes: pls. see section 16 "Notes relating to the identification, classification and labelling of substances ((EC) No 1272/2008, Annex VI)".

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing. In case of persisting adverse effects, consult a physician.

After inhalation

Remove affected persons from dangerous area by observing suitable respiratory protection measures. Ensure supply of fresh air. In case of persisting adverse effects consult a physician.

After skin contact

In case of contact with skin wash off with water. Consult a doctor if skin irritation persists.

After eye contact

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Get medical attention if pain still persists.

After ingestion

Rinse the mouth thoroughly with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms

Frostbite; Dizziness

Effects

In the case of swallowing with subsequent vomiting, aspiration of the lungs can occur which can lead to chemical pneumonia or asphyxiation.

4.3 Indication of any immediate medical attention and special treatment needed No data available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Carbon dioxide; Water spray jet; Extinguishing powder; Fight large fires with directed water spray or Alcohol-resistant foam

Unsuitable extinguishing media

High power water jet

5.2 Special hazards arising from the substance or mixture

In the event of fire, the following can be released: Carbon monoxide and carbon dioxide; Bursting aerosol cans can be launched out of a fire with great force.

5.3 Advice for firefighters

Do not inhale explosion and/or combustion byproducts. Cool closed containers exposed to fire with water. Use selfcontained breathing apparatus. Wear protective clothing. Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations. Closed containers may rupture when exposed to extreme heat.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Refer to protective measures listed in sections 7 and 8. Ensure adequate ventilation. Keep away from ignition sources.

For emergency responders

Personal protective equipment (PPE) - see section 8.

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6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

6.3 Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Collect mechanically.

6.4 Reference to other sections

Information regarding safe handling, see section 7. Information regarding personal protective measures, see section 8. Information regarding waste disposal, see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Risks inherent to handling the product must be minimised by applying the appropriate protective and preventive measures. Working processes should - so far as possible, according to the state of the art - be designed to rule out bodily contact or the release of hazardous substances. Do not pierce or burn, even after use.

General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Do not inhale vapours. Avoid contact with eyes and skin. Wash hands before breaks and after work. Remove contaminated clothing and shoes and launder thoroughly before reusing.

Advice on protection against fire and explosion

Keep away from sources of ignition - refrain from smoking. Isolate from sources of heat, sparks and open flame.

7.2 Conditions for safe storage, including any incompatibilities

max.

Technical measures and storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place. Protect from heat and direct sunlight. Storage temperature may not exceed 50°C (=122°F).

Recommended storage temperature

Value

°C

Requirements for storage rooms and vessels

Containers which are opened must be carefully closed and kept upright to prevent leakage. Always keep in containers of same material as the original.

50

Incompatible products

Substances to be avoided, see section 10.

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

No	Substance name	CAS no.		EC no.	
1	ethanol	64-17-5		200-578-6	
	List of approved workplace exposure limits (WELs) / I	EH40			
	Ethanol				
	WEL long-term (8-hr TWA reference period)	1920	mg/m³	1000	ppm
2	butane	106-97-8		203-448-7	
	List of approved workplace exposure limits (WELs) / EH40				
	Butane				
	WEL short-term (15 min reference period)	1810	mg/m³	750	ppm
	WEL long-term (8-hr TWA reference period)	1450	mg/m³	600	ppm
	Comments	Carc, (only	applies if Buta	ane contains m	ore than 0.1%
		of buta-1,3-	diene)		
3	propan-2-ol	67-63-0		200-661-7	
	List of approved workplace exposure limits (WELs) / I	EH40			

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Propan-2-ol				
WEL short-term (15 min reference period)	1250	mg/m³	500	ppm
WEL long-term (8-hr TWA reference period)	999	mg/m³	400	ppm

DNEL, DMEL and PNEC values

DNEL values (worker)

I

No	Substance name	Substance name			no
	Route of exposure	Exposure time	Effect	Value	
1	ethanol		· · · · · · · · · · · · · · · · · · ·	64-17-5	
				200-578-0	6
	dermal	Long term (chronic)	systemic	8238	mg/kg/day
	inhalative	Long term (chronic)	systemic	380	mg/m³
2	Hydrocarbons, C9-C10	, n-alkanes, isoalkanes, cy	clics, <2% aromatics	-	
		· · · · · •		927-241-2	2
	dermal	Long term (chronic)	systemic	77	mg/kg/day
	inhalative	Long term (chronic)	systemic	871	mg/m³
3	propan-2-ol			67-63-0	
				200-661-7	7
	dermal	Long term (chronic)	systemic	888	mg/kg/day
	inhalative	Long term (chronic)	svstemic	500	mg/m³

DNEL value (consumer)

No	Substance name			CAS / EC	c no
	Route of exposure	Exposure time	Effect	Value	
1	ethanol		· · · · · · · · · · · · · · · · · · ·	64-17-5	
				200-578-	6
	inhalative	Long term (chronic)	systemic	114	mg/m³
2	Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics		-		
				927-241-	2
	oral	Long term (chronic)	systemic	46	mg/kg/day
	dermal	Long term (chronic)	systemic	46	mg/kg/day
	inhalative	Long term (chronic)	systemic	185	mg/m³
3	propan-2-ol			67-63-0	
				200-661-	7
	oral	Long term (chronic)	systemic	26	mg/kg/day
	dermal	Long term (chronic)	systemic	319	mg/kg/day
	inhalative	Long term (chronic)	systemic	89	mg/m³

PNEC values

No	Substance name		CAS / EC	no
	ecological compartment	Туре	Value	
1	ethanol		64-17-5	
			200-578-6	6
	water	fresh water	0.96	mg/L
	water	marine water	0.79	mg/L
	water	fresh water sediment	3.6	mg/kg dry weight
	water	marine water sediment	2.9	mg/L
	soil	-	0.63	mg/kg dry weight
	sewage treatment plant	-	580	mg/L
	secondary poisoning	-	0.38	g/kg
	with reference to: food			
2	propan-2-ol		67-63-0	
			200-661-7	7
	water	fresh water	140.9	mg/L
	water	marine water	140.9	mg/L
	water	fresh water sediment	552	mg/L
	water	marine water sediment	552	mg/L
	soil	-	28	mg/kg
	sewage treatment plant	-	2251	mg/L

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secondary poisoning	-	160	ma/ka
with reference to: food			

8.2 Exposure controls

Appropriate engineering controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL (=Occupational Exposure Limit), suitable respiratory protection must be worn.

Personal protective equipment

Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

Respirator AX/P2

Eye / face protection

Safety glasses with side protection shield (EN 166)

Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Appropriate Material	NBR		
Material thickness	>=	0.38	mm
Breakthrough time	>=	480	min

Other

Chemical-resistant work clothes.

Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

State of aggregation			
liquid			
Form			
gas type; Aerosol			
Colour			
colourless			
Odour			
characteristic			
pH value			
No data available			
Boiling point / boiling range			
Value		78	C
Melting point/freezing point			
No data available			
Decomposition temperature			
No data available			
Flash point			
Value	<	-60	°C
Method	DIN 51755		

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Region: GB

leveltien teneneneture					
Ignition temperature Value	min.	200	°C		
Method	DIN 51794	200	Ū		
Elemmobility	·				
Flammability No data available					
Lower explosion limit					
No data available					
Upper explosion limit					
No data available					
Vapour pressure					
No data available					
Relative vapour density					
No data available					
Relative density					
No data available					
Density					
Value		0.82	g/cm³		
Reference temperature Method	DIN 51757	15	°C		
	16716 אווט				
Solubility in water					
Comments	partly soluble	;			
Solubility					
No data available					
Partition coefficient n-octanol/water (log	valuo)				
	value)				
		CAS no.		FC no.	
No Substance name 1 ethanol		CAS no. 64-17-5		EC no. 200-578-6	
No Substance name			-0.35		
No Substance name 1 ethanol log Pow Reference temperature			-0.35 24		
No Substance name 1 ethanol log Pow Reference temperature with reference to Substance name	pH 7,4			200-578-6	_
No Substance name 1 ethanol log Pow Reference temperature with reference to Method	OECD 107			200-578-6	
No Substance name 1 ethanol log Pow Reference temperature with reference to Method Source Source		64-17-5		200-578-6 °C	
No Substance name 1 ethanol log Pow Reference temperature with reference to Method Source 2 propane 2	OECD 107 ECHA		24	200-578-6	
No Substance name 1 ethanol log Pow Reference temperature with reference to Method Source Source	OECD 107	64-17-5		200-578-6 °C	
No Substance name 1 ethanol log Pow Reference temperature with reference to Method Source Propane log Pow Method Source Source	OECD 107 ECHA appr.	64-17-5 74-98-6	24	200-578-6 °C 200-827-9	
No Substance name 1 ethanol log Pow Reference temperature with reference to Method Source 2 2 propane log Pow Method Source 3 isobutane 1	OECD 107 ECHA appr. QSAR	64-17-5	24 1.8	200-578-6 °C	
No Substance name 1 ethanol log Pow Reference temperature with reference to Method Source 2 2 propane log Pow Method Source 3 isobutane Iog Pow	OECD 107 ECHA appr. QSAR	64-17-5 74-98-6	24 1.8 2.80	200-578-6 °C 200-827-9 200-857-2	
No Substance name 1 ethanol log Pow Reference temperature with reference to Method Source 2 2 propane log Pow Method Source 3 isobutane Iog Pow Reference temperature Method	OECD 107 ECHA appr. QSAR ECHA	64-17-5 74-98-6	24 1.8	200-578-6 °C 200-827-9	
No Substance name 1 ethanol log Pow Reference temperature with reference to Method Source 2 2 propane log Pow Method Source 3 isobutane Iog Pow Reference temperature with reference to	OECD 107 ECHA appr. QSAR ECHA PH 7	64-17-5 74-98-6	24 1.8 2.80	200-578-6 °C 200-827-9 200-857-2	
No Substance name 1 ethanol log Pow Reference temperature with reference to Method Source 2 2 propane log Pow Method Source 3 isobutane Iog Pow Reference temperature with reference to Source 3	OECD 107 ECHA appr. QSAR ECHA	64-17-5 74-98-6 75-28-5	24 1.8 2.80	200-578-6 °C 200-827-9 200-857-2 °C	
No Substance name 1 ethanol log Pow Reference temperature with reference to Method Source 2 2 propane log Pow Method Source 3 isobutane Iog Pow Reference temperature with reference to Source 4 propan-2-ol Iog Pow	OECD 107 ECHA appr. QSAR ECHA PH 7	64-17-5 74-98-6	24 1.8 2.80 20 0.05	200-578-6 °C 200-827-9 200-857-2 °C 200-661-7	
No Substance name 1 ethanol log Pow Reference temperature with reference to Method Source 2 propane log Pow Method Source 3 isobutane Iog Pow Reference temperature with reference to Source 4 propan-2-ol Iog Pow Reference temperature Reference temperature Reference temperature	OECD 107 ECHA appr. QSAR ECHA pH 7 ECHA	64-17-5 74-98-6 75-28-5	24 1.8 2.80 20	200-578-6 °C 200-827-9 200-857-2 °C	
No Substance name 1 ethanol log Pow Reference temperature with reference to Method Source 2 2 propane log Pow Method Source 3 isobutane Iog Pow Reference temperature with reference to Source 4 propan-2-ol Iog Pow	OECD 107 ECHA appr. QSAR ECHA PH 7	64-17-5 74-98-6 75-28-5	24 1.8 2.80 20 0.05	200-578-6 °C 200-827-9 200-857-2 °C 200-661-7	
No Substance name 1 ethanol log Pow Reference temperature with reference to Method Source 2 2 propane log Pow Method Source 3 isobutane Iog Pow Reference temperature with reference to Source 4 propan-2-ol Iog Pow Reference temperature Source	OECD 107 ECHA appr. QSAR ECHA pH 7 ECHA	64-17-5 74-98-6 75-28-5	24 1.8 2.80 20 0.05	200-578-6 °C 200-827-9 200-857-2 °C 200-661-7	
No Substance name 1 ethanol log Pow Reference temperature with reference to Method Source 2 propane log Pow Method Source 3 isobutane Iog Pow Reference temperature with reference to Source 4 propan-2-ol Iog Pow Reference temperature Reference temperature Reference temperature	OECD 107 ECHA appr. QSAR ECHA pH 7 ECHA	64-17-5 74-98-6 75-28-5	24 1.8 2.80 20 0.05	200-578-6 °C 200-827-9 200-857-2 °C 200-661-7	
No Substance name 1 ethanol log Pow Reference temperature with reference to Method Source Source 2 propane log Pow Method Source Source 3 isobutane log Pow Reference temperature with reference to Source 4 propan-2-ol log Pow Reference temperature Source Kinematic viscosity No data available No data available	OECD 107 ECHA appr. QSAR ECHA pH 7 ECHA	64-17-5 74-98-6 75-28-5	24 1.8 2.80 20 0.05	200-578-6 °C 200-827-9 200-857-2 °C 200-661-7	
No Substance name 1 ethanol log Pow Reference temperature with reference to Method Source 2 2 propane log Pow Method Source 3 isobutane Iog Pow Reference temperature with reference to Source 4 propan-2-ol Iog Pow Reference temperature Source 4 propan-2-ol log Pow Reference temperature Source Source 4 propan-2-ol log Pow Reference temperature No data available Particle characteristics	OECD 107 ECHA appr. QSAR ECHA pH 7 ECHA	64-17-5 74-98-6 75-28-5	24 1.8 2.80 20 0.05	200-578-6 °C 200-827-9 200-857-2 °C 200-661-7	
NoSubstance name1ethanollog PowReference temperaturewith reference toMethodSource2propanelog PowMethodSource3isobutanelog PowReference temperaturewith reference toSource4propan-2-ollog PowReference temperatureSource4propan-2-ollog PowReference temperatureSource4Protan-2-ollog PowReference temperatureSourceVo data availableParticle characteristicsNo data available	OECD 107 ECHA appr. QSAR ECHA pH 7 ECHA	64-17-5 74-98-6 75-28-5	24 1.8 2.80 20 0.05	200-578-6 °C 200-827-9 200-857-2 °C 200-661-7	
No Substance name 1 ethanol log Pow Reference temperature with reference to Method Source 2 2 propane log Pow Method Source 3 isobutane Iog Pow Reference temperature with reference to Source 4 propan-2-ol Iog Pow Reference temperature Source 4 propan-2-ol log Pow Reference temperature Source Xinematic viscosity No data available Particle characteristics No data available 2 Other information 1	OECD 107 ECHA appr. QSAR ECHA pH 7 ECHA	64-17-5 74-98-6 75-28-5	24 1.8 2.80 20 0.05	200-578-6 °C 200-827-9 200-857-2 °C 200-661-7	
No Substance name 1 ethanol log Pow Reference temperature with reference to Method Source 2 2 propane log Pow Method Source 3 isobutane Iog Pow Reference temperature with reference to Source 4 propan-2-ol Iog Pow Reference temperature Source 4 propan-2-ol Iog Pow Reference temperature Source X Pootata available Particle characteristics No data available No data available	OECD 107 ECHA appr. QSAR ECHA pH 7 ECHA	64-17-5 74-98-6 75-28-5	24 1.8 2.80 20 0.05	200-578-6 °C 200-827-9 200-857-2 °C 200-661-7	

SECTION 10: Stability and reactivity

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Region: GB

10.1 Reactivity

Dangerous reactions are not expected if the product is handled according to its intended use.

10.2 Chemical stability Stable under recommended storage and handling conditions (See section 7).

10.3 Possibility of hazardous reactions Dangerous reactions are not to be expected when handling product according to its intended use.

10.4 Conditions to avoid Heat, naked flames and other ignition sources.

10.5 Incompatible materials strong oxidizing agents; strong acids; strong bases

10.6 Hazardous decomposition products

None, if handled according to intended use.

SECTION 11: Toxicological information

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

Acut	e oral toxicity			
No	Substance name	CAS no.		EC no.
1	ethanol	64-17-5		200-578-6
LD50			10470	mg/kg bodyweight
Spec		rat		
with	reference to	95% ethanol in water		
Meth		OECD 401		
Sour		ECHA		
	uation/classification	Based on available data, th	e classificatio	
	propan-2-ol	67-63-0		200-661-7
LD50			5840	mg/kg bodyweight
Spec		rat		
Meth		OECD 401		
Sour		ECHA		
Evalı	uation/classification	Based on available data, th	e classificatio	n criteria are not met.
Acut	e dermal toxicity			
	ata available			
Acut	e inhalational toxicity			
	Substance name	CAS no.		EC no.
1	ethanol	64-17-5		200-578-6
LC50)		124.7	mg/l
Dura	tion of exposure		4	h
	of aggregation	Vapour		
Spec		rat		
Meth	od	OECD 403		
Sour	ce	ECHA		
Evalu	uation/classification	Based on available data, th	e classificatio	n criteria are not met.
2	propane	74-98-6		200-827-9
LC50		>	800000	ppmV
	tion of exposure		0.25	h
	e of aggregation	Gas		
Spec	sies	rat		
Sour	ce	ECHA		
Evalu	uation/classification	Based on available data, th	e classificatio	
-	isobutane	75-28-5		200-857-2
LC50			520400	ppmV
Dura	tion of exposure		2	h
	e of aggregation	Gas		
State Spec Sour	ties	mouse ECHA		

	luation/classification	Based on available data, the class	
4	propan-2-ol	67-63-0	200-661-7
LC5		> 100	
	ration of exposure	6	h
	te of aggregation ecies	Vapour rat	
	thod	OECD 403	
	Irce	ECHA	
	aluation/classification	Based on available data, the class	ification criteria are not met
	n corrosion/irritation Substance name	CAS no.	EC no.
1	ethanol	CAS NO. 64-17-5	200-578-6
-	ecies	rabbit	200-578-6
	thod	OECD 404	
	Irce	ECHA	
	aluation	non-irritant	
	aluation/classification	Based on available data, the class	ification criteria are not met
<u>2</u>	propan-2-ol	67-63-0	200-661-7
	ecies	rabbit	200 001 1
	Irce	ECHA	
	aluation	non-irritant	
	luation/classification	Based on available data, the class	ification criteria are not met.
Sar	ious ave demage/irritation	·	
	ious eye damage/irritation Substance name	CAS no.	EC no.
1	ethanol	64-17-5	200-578-6
Spe	ecies	rabbit	
	thod	OECD 405	
Sou	Irce	ECHA	
Eva	luation	irritant	
Eva	luation/classification	Based on available data, the class	ification criteria are met.
2	propan-2-ol	67-63-0	200-661-7
Spe	ecies	rabbit	
Met	thod	OECD 405	
	Irce	ECHA	
	luation	irritant	
Eva	luation/classification	Based on available data, the class	ification criteria are met.
Res	spiratory or skin sensitisation		
	Substance name	CAS no.	EC no.
1	ethanol	64-17-5	200-578-6
	ute of exposure	respiratory tract	
	Irce	ECHA	
	luation	non-sensitizing	.
	aluation/classification	Based on available data, the class	ification criteria are not met.
	ite of exposure	Skin	
	ecies	mouse	
	Irce	ECHA	
	iluation	non-sensitizing	ification oritoria and material
	aluation/classification	Based on available data, the class	
2 Rou	propan-2-ol	67-63-0	200-661-7
rs ()	ute of exposure	Skin	
		guinea pig OECD 406	
Spe		ECHA	
Spe Met	11.e		
Spe Met Sou		non-sensitizing	ification criteria are not mot
Spe Met Sou Eva	luation	Based on available data, the class	
Spe Met Sou Eva Eva	uluation uluation/classification	Based on available data, the class	
Spe Met Sou Eva Eva	uluation uluation/classification rm cell mutagenicity		
Spe Met Sou Eva Eva	uluation uluation/classification	Based on available data, the class CAS no. 64-17-5	EC no. 200-578-6

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		I
Species	Salmonella typhimurium OECD 471	
Method	I ECHA	
Source		
Evaluation/classification	Based on available data, the classification criteria are not r	net.
Type of examination	in vitro gene mutation study in mammalian cells	
Species	mouse lymphoma cells	
Method	OECD 476	
Source	ECHA	4
Evaluation/classification	Based on available data, the classification criteria are not r	net.
Type of examination	Genotoxicity in vivo	
Species	mouse	
Method	OECD 478	
Source	ECHA	
Evaluation/classification	Based on available data, the classification criteria are not r	net.
2 butane	106-97-8 203-448-7	
Type of examination	In vitro Mammalian Chromosomal Aberration Test	
Species	Human Lymphocyte	
Method	OECD 473	
Source	ECHA	
Evaluation/classification	Based on available data, the classification criteria are not r	net.
Type of examination	in vitro gene mutation study in bacteria	
Species	Salmonella typhimurium	
Method	OECD 471	
Source	ECHA	
Evaluation/classification	Based on available data, the classification criteria are not r	net.
3 propane	74-98-6 200-827-9	
Route of exposure	inhalational	
Species	Salmonella typhimurium	
Method	OECD 471	
Source	ECHA	
Evaluation/classification	Based on available data, the classification criteria are not r	net.
4 isobutane	75-28-5 200-857-2	
Species	Salmonella typhimurium	
Method	Value taken from the literature	
Source	ECHA	_
Evaluation/classification	Based on available data, the classification criteria are not r	net.
5 propan-2-ol	67-63-0 200-661-7	
Source	ECHA	
Evaluation/classification	Based on available data, the classification criteria are not r	net.
Perroduction toxicity		
Reproduction toxicity		

No	Substance name	CAS no. EC	no.
-			
1	ethanol		0-578-6
	e of exposure	oral	
NOA	EL		
Туре	of examination	2 generation study	
Spec	bies	mouse	
Meth	lod	OECD 416	
Sour	ce	ECHA	
Eval	uation/classification	Based on available data, the classification crit	eria are not met.
Rout	e of exposure	inhalational	
NOA	EL	>= 20000	ppm
Туре	of examination	Prenatal Developmental Toxicity Study	
Spec	bies	rat	
Meth	od	OECD 414	
Sour	ce	ECHA	
Eval	uation/classification	Based on available data, the classification crit	eria are not met.
2	butane	106-97-8 203	3-448-7
Rout	e of exposure	inhalational	
Spec	cies	rat	
Meth	od	OECD 422	
Sour	ce	ECHA	
Eval	uation/classification	Based on available data, the classification crit	eria are not met.

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No data available

11.2 Information on other hazards

Endocrine disrupting properties No data available.

Other information No data available.

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SECTION 12: Ecological information

12.1 Toxicity

Toxi	city to fish (acute)			
	Substance name	CAS no		EC no.
1	ethanol	64-17-5		200-578-6
LC5			14200	mg/l
	ation of exposure		96	h
Spe		Pimephales promelas		
Meth		EPA		
Sou		ECHA		
2	propan-2-ol	67-63-0	0040	200-661-7
LC5			9640	mg/l
	ation of exposure	Dimensionale en managere de s	96	h
Spe Meth		Pimephales promelas OECD 203		
Sou		ECHA		
Sou	ce	ECHA		
Toxi	city to fish (chronic)			
No c	lata available			
Tov	city to Daphnia (couto)			
	city to Daphnia (acute) Substance name	CAS no		EC no.
1	ethanol	64-17-5	•	200-578-6
EC5		04-17-3	5012	
	o ation of exposure		48	mg/l h
Spe		Ceriodaphnia dubia	40	11
Meth		ASTM Standard E 729	-80	
Sou		ECHA	-00	
2	Hydrocarbons, C9-C10, n-alkanes, isoalk			927-241-2
-	cyclics, <2% aromatics	unoo,		027 247 2
EL5		> 22	- 46	mg/l
	ation of exposure		48	h
Spe		Daphnia magna		
Meth		OECD 202		
Sou	rce	ECHA		
3	propan-2-ol	67-63-0		200-661-7
EC5	0	>	10000	mg/l
	ation of exposure		24	h
Spe	cies	Daphnia magna		
Meth	nod	OECD 202		
Sou	rce	ECHA		
Tovi	city to Daphnia (chronic)			
	Substance name	CAS no		EC no.
1	ethanol	64-17-5	•	200-578-6
		04-17-3	9.6	mg/l
	ation of exposure		9.0	day(s)
Spe	ries	Daphnia magna	3	uay(s)
Sou		ECHA		
	city to algae (acute)			
-	Substance name	CAS no	•	EC no.
1	ethanol	64-17-5		200-578-6
EC5			275	mg/l
Dura	ation of exposure		72	h
Spe		Chlorella vulgaris		
Meth		OECD 201		
Sou	rce	ECHA		
Τονί	city to algae (chronic)			
	lata available			

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Bacteria toxicity No data available

Biodegra				
No Sub	stance name	CAS no.		EC no.
1 etha	inol	64-17-5		200-578-6
Туре		aerobic biodegradation		
Value		appr.	84	%
Duration			20	day(s)
Source		ECHA		
Evaluatio	n	readily biodegradable		
2 buta	ane	106-97-8		203-448-7
Туре		aerobic biodegradation		
Value			50	%
Duration			3.46	d
Method		QSAR		
Source		ECHA		
3 pro	oane	74-98-6		200-827-9
Туре		aerobic biodegradation		
Value			50	%
Duration			3	d
Method		QSAR		
Source		ECHA		
Evaluatio		readily biodegradable		
	rocarbons, C9-C10, n-all ics, <2% aromatics	kanes, isoalkanes, -		927-241-2
Туре		aerobic biodegradation		
Value			89	%
Duration			28	day(s)
Method		OECD 301 F		
Source		ECHA		
Evaluatio		readily biodegradable		
5 isot	outane	75-28-5		200-857-2
Туре		aerobic biodegradation		
Value			50	%
Duration			3.1	d
Method		QSAR		
Source		ECHA		
Evaluatio		readily biodegradable		
6 pro	ban-2-ol	67-63-0		200-661-7
Туре		BOD/COD		
Value			53	%
Duration			5	day(s)
Source		ECHA		
Evaluatio	n	readily biodegradable		

12.3 Bioaccumulative potential

Part	ition coefficient n-octanol/water (log value	e)			
No	Substance name		CAS no.		EC no.
1	ethanol		64-17-5		200-578-6
log F	Pow			-0.35	
Refe	erence temperature			24	°C
with	reference to	pH 7,4			
Meth	nod	OECD 107			
Sou	rce	ECHA			
2	propane		74-98-6		200-827-9
log F	Pow	appr.		1.8	
Meth	nod	QSAR			
Sou	rce	ECHA			
3	isobutane		75-28-5		200-857-2
log F	Pow			2.80	

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Reference temperature		20	°C	
with reference to	pH 7			
Source	ECHA			
4 propan-2-ol	67-63-	0	200-661-7	
log Pow		0.05		
Reference temperature		25	°C	
Source	ECHA			

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment No data available.

12.6 Endocrine disrupting properties No data available.

12.7 Other adverse effects

No data available.

12.8 Other information

Other information Do not discharge product unmonitored into the environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Disposal of the product should be carried out in accordance with all applicable regulations following consultation with the responsible local authority and the disposal company in an authorised and suitable disposal facility. Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Packaging

Residues must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

SECTION 14: Transport information

UN number or ID number ADR/RID/ADN IMDG ICAO-TI / IATA	UN1950 UN1950 UN1950
UN proper shipping name ADR/RID/ADN	AEROSOLS
IMDG	AEROSOLS
ICAO-TI / IATA	Aerosols, flammable
Transport hazard class(es) ADR/RID/ADN - Class Label Classification code Tunnel restriction code IMDG - Class Label ICAO-TI / IATA - Class Label	2 2.1 5F D 2 2.1 2.1 2.1
	IMDG ICAO-TI / IATA UN proper shipping name ADR/RID/ADN IMDG ICAO-TI / IATA Transport hazard class(es) ADR/RID/ADN - Class Label Classification code Tunnel restriction code IMDG - Class Label ICAO-TI / IATA - Class

14.4 Packing group

Not classified as dangerous in the meaning of transport regulations.

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- 14.5Environmental hazards
EmSF-D, S-U
- **14.6** Special precautions for user No data available.
- 14.7 Maritime transport in bulk according to IMO instruments Not relevant

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) Annex XIV (List of substances subject to authorisation)

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

REACH candidate list of substances of very high concern (SVHC) for authorisation

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON
THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES

 The product is considered being subject to REACH regulation (EC) 1907/2006 annex XVII.
 No 3

 The product contains following substance(s) that are considered being subject to REACH regulation (EC) 1907/2006 annex XVII.
 No 3

 No
 Substance name
 CAS no
 EC no
 No

INO	Substance name	CAS 110.	EC NO.	NO
1	propan-2-ol	67-63-0	200-661-7	75

Directive 2012/18/EUon the control of major-accident hazards involving dangerous substancesThis product is subject to Part I of Annex I, risk category:P3a

Other regulations

Adhere to the national sanitary and occupational safety regulations when using this product.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this mixture.

SECTION 16: Other information

Sources of key data used to compile the data sheet:

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

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.		
H319	Causes serious eye irritation.		
H336	May cause drowsiness or dizziness.		
H412	Harmful to aquatic life with long lasting effects.		

Notes relating to the identification, classification and labelling of substances and mixtures ((EC) No 1272/2008, Annex VI)

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ixture of several iso	mixtu	С
e groups compresse oup depends on the	the gi group	U
e groups compresse oup depends on the signed case by cas	the g group assig	-
nces may be marketed either in a specific isomerio mers. In this case the supplier must state on the la c isomer or a mixture of isomers. xet gases have to be classified as 'Gases under pr ed gas, liquefied gas, refrigerated liquefied gas or physical state in which the gas is packaged and t	The of several isomers. In this case the supplier must state on the latance is a specific isomer or a mixture of isomers. In put on the market gases have to be classified as 'Gases under put on the market gases have to be classified as 'Gases under put on the market gas, liquefied gas, refrigerated liquefied gas or o depends on the physical state in which the gas is packaged and the ned case by case.	.0.5, issued: 10.05.2024 Replaced version: 1.0.4, issued: 25.11.2022 Some organic substances may be marketed either in a specific isomeric mixture of several isomers. In this case the supplier must state on the la substance is a specific isomer or a mixture of isomers. When put on the market gases have to be classified as 'Gases under pu the groups compressed gas, liquefied gas, refrigerated liquefied gas or group depends on the physical state in which the gas is packaged and t assigned case by case.

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This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

Alterations/supplements:

Alterations to the previous edition are marked in the left-hand margin.

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