EU safety data sheet

Trade name: KRONES colclean DI 4001

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

1.1 Product identifier

Trade name

KRONES colclean DI 4001

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

Relevant identified uses of the substance or mixture
Disinfectant

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)
Eye Dam. 1; H318
Flam. Liq. 3; H226
STOT SE 3; H336

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


GHS02


GHS05


GHS07

Signal word
Danger

Hazardous component(s) to be indicated on label:
propan-1-ol

Hazard statement(s)

H226	Flammable liquid and vapour.
H318	Causes serious eye damage.
H336	May cause drowsiness or dizziness.

Precautionary statement(s)

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280	Wear protective gloves/protective clothing/eye protection/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 CENTER/doctor.
P501	Dispose of contents/container to a facility in accordance with local and national regulations.

2.3 Other hazards

PBT assessment
The product is not considered to be a PBT.

vPvB assessment
The product is not considered to be a vPvB.

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		Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration	%
1	**propan-1-ol**			
	71-23-8 200-746-9 603-003-00-0 01-2119486761-29	Eye Dam. 1; H318 Flam. Liq. 2; H225 STOT SE 3; H336	>= 25.00 - < 50.00	wt%
2	**ethanol**			
	64-17-5 200-578-6 603-002-00-5 01-2119457610-43	Flam. Liq. 2; H225 Eye Irrit. 2; H319	>= 10.00 - < 25.00	wt%

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

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
2	-	Eye Irrit. 2; H319: C >= 50%	-	-

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. Seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed
No data available.

4.3 Indication of any immediate medical attention and special treatment needed
Treat symptomatically

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Foam; Extinguishing powder; Water spray jet; Carbon dioxide; 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: Toxic pyrolysis products; Carbon monoxide and carbon dioxide

5.3 Advice for firefighters
Use self-contained breathing apparatus. Wear protective clothing. Do not inhale explosion and/or combustion byproducts. Run-off water from fire fighting must not be discharged into drains or enter surface water. Cool closed containers exposed to fire with water. Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

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. Exclude sources of ignition and ventilate the area. Use personal protective clothing.

For emergency responders
Personal protective equipment (PPE) - see section 8.

6.2 Environmental precautions
Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil. Prevent spread over a wide area (e.g. by containment or oil barriers).

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).

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. Provide good ventilation at the work area (local exhaust ventilation, if necessary).

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

Isolate from sources of heat, sparks and open flame. Keep away from sources of ignition - refrain from smoking. Take precautionary measures against static charges. No sparking tools should be used.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions
Keep container tightly closed and dry in a cool, well-ventilated place. Protect from heat and direct sunlight.

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.

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	**propan-1-ol**	**71-23-8**		**200-746-9**	
	List of approved workplace exposure limits (WELs) / EH40				
	Propan-1-ol				
	WEL short-term (15 min reference period)	625	mg/m³	250	ppm
	WEL long-term (8-hr TWA reference period)	500	mg/m³	200	ppm
	Comments	Sk			
2	**ethanol**	**64-17-5**		**200-578-6**	
	List of approved workplace exposure limits (WELs) / EH40				
	Ethanol				
	WEL long-term (8-hr TWA reference period)	1920	mg/m³	1000	ppm

DNEL, DMEL and PNEC values

DNEL values (worker)

No	Substance name			CAS / EC no	
	Route of exposure	**Exposure time**	**Effect**	**Value**	
1	**propan-1-ol**			**71-23-8 200-746-9**	
	dermal	Long term (chronic)	systemic	136	mg/kg/day
	inhalative	Short term (acut)	systemic	1723	mg/m³
	inhalative	Long term (chronic)	systemic	268	mg/m³
2	**ethanol**			**64-17-5 200-578-6**	
	dermal	Long term (chronic)	systemic	343	mg/kg/day
	inhalative	Long term (chronic)	systemic	950	mg/m³

DNEL value (consumer)

No	Substance name			CAS / EC no	
	Route of exposure	**Exposure time**	**Effect**	**Value**	
1	**propan-1-ol**			**71-23-8 200-746-9**	
	oral	Long term (chronic)	systemic	61	mg/kg/day
	dermal	Long term (chronic)	systemic	81	mg/kg/day
	inhalative	Short term (acut)	systemic	1036	mg/m³
	inhalative	Long term (chronic)	systemic	80	mg/m³
2	**ethanol**			**64-17-5 200-578-6**	
	oral	Long term (chronic)	systemic	87	mg/kg/day
	dermal	Long term (chronic)	systemic	206	mg/kg/day

	inhalative	Long term (chronic)	systemic	114	mg/m³

PNEC values

No	Substance name		CAS / EC no	
	ecological compartment	Type	Value	
1	**propan-1-ol**		**71-23-8 200-746-9**	
	water	fresh water	6.83	mg/L
	water	Aqua intermittent	10	mg/L
	water	marine water	0.683	mg/L
	water	fresh water sediment	27.5	mg/kg dry weight
	water	marine water sediment	2.75	mg/kg dry weight
	soil	-	1.49	mg/kg dry weight
	sewage treatment plant	-	96	mg/L
2	**ethanol**		**64-17-5 200-578-6**	
	water	fresh water	0.96	mg/L
	water	Aqua intermittent	2.75	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	mg/kg 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	kurzzetig Filtergerät
Respiratory filter (gas) :	A

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	butyl rubber		
Material thickness	>	0.5	mm
Breakthrough time	>	480	min
Appropriate Material	nitrile rubber		
Material thickness		0.5	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/Colour
liquid
colourless

Odour
alcohol-like

pH value			
Value		7	

Boiling point / boiling range			
Value	<	100	°C

Melting point/freezing point			
Value	<	0	°C

Decomposition temperature
No data available

Flash point			
Value		27.5	°C

Ignition temperature
No data available

Oxidising properties
not oxidizing

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			
Value		0.9	

Density
No data available

Solubility in water	
Comments	Completely miscible

Solubility
No data available

Partition coefficient n-octanol/water (log value)					
No	**Substance name**	**CAS no.**			**EC no.**
1	**propan-1-ol**	**71-23-8**			**200-746-9**
log Pow		0.2	-	1.6	
Reference temperature				25	°C

with reference to	pH 7
Method	OECD 117
Source	ECHA

2	**ethanol**	**64-17-5**	**200-578-6**
log Pow		-0.35	
Reference temperature		24	°C
with reference to		pH 7,4	
Method		OECD 107	
Source		ECHA	

Viscosity
No data available

Particle characteristics
No data available

9.2 Other information

Other information
No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity
Stable at ambient temperature.

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. Protect from sun.

10.5 Incompatible materials
Oxidizing agents; Acids

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

Acute oral toxicity			
No	**Substance name**	**CAS no.**	**EC no.**
1	**propan-1-ol**	**71-23-8**	**200-746-9**
LD50		3730	mg/kg bodyweight
Species		rat	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
2	**ethanol**	**64-17-5**	**200-578-6**
LD50		10470	mg/kg bodyweight
Species		rat	
with reference to		95% ethanol in water	
Method		OECD 401	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	

Acute dermal toxicity			
No	**Substance name**	**CAS no.**	**EC no.**
1	**propan-1-ol**	**71-23-8**	**200-746-9**
LD50		4032	mg/kg bodyweight
Species		rabbit	

Method	OECD 402
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.

Acute inhalational toxicity				
No	**Substance name**	**CAS no.**		**EC no.**
1	**propan-1-ol**	**71-23-8**		**200-746-9**
LC50		>	33.8	mg/l
Duration of exposure			4	h
State of aggregation		Vapour		
Species		rat		
Method		OECD 403		
Source		ECHA		
Evaluation/classification		Based on available data, the classification criteria are not met.		
2	**ethanol**	**64-17-5**		**200-578-6**
LC50			124.7	mg/l
Duration of exposure			4	h
State of aggregation		Vapour		
Species		rat		
Method		OECD 403		
Source		ECHA		
Evaluation/classification		Based on available data, the classification criteria are not met.		

Skin corrosion/irritation			
No	**Substance name**	**CAS no.**	**EC no.**
1	**propan-1-ol**	**71-23-8**	**200-746-9**
Species		rabbit	
Method		OECD 404	
Source		ECHA	
Evaluation		non-irritant	
Evaluation/classification		Based on available data, the classification criteria are not met.	
2	**ethanol**	**64-17-5**	**200-578-6**
Species		rabbit	
Method		OECD 404	
Source		ECHA	
Evaluation		non-irritant	
Evaluation/classification		Based on available data, the classification criteria are not met.	

Serious eye damage/irritation			
No	**Substance name**	**CAS no.**	**EC no.**
1	**propan-1-ol**	**71-23-8**	**200-746-9**
Species		rabbit	
Method		OECD 405	
Source		ECHA	
Evaluation		Irreversible effects on the eye	
Evaluation/classification		Based on available data, the classification criteria are met.	
2	**ethanol**	**64-17-5**	**200-578-6**
Species		rabbit	
Method		OECD 405	
Source		ECHA	
Evaluation		irritant	
Evaluation/classification		Based on available data, the classification criteria are met.	

Respiratory or skin sensitisation			
No	**Substance name**	**CAS no.**	**EC no.**
1	**propan-1-ol**	**71-23-8**	**200-746-9**
Route of exposure		Skin	
Species		guinea pig	
Method		OECD 406	
Source		ECHA	
Evaluation		non-sensitizing	
Evaluation/classification		Based on available data, the classification criteria are not met.	
2	**ethanol**	**64-17-5**	**200-578-6**

Route of exposure	respiratory tract
Source	ECHA
Evaluation	non-sensitizing
Evaluation/classification	Based on available data, the classification criteria are not met.
Route of exposure	Skin
Species	mouse
Source	ECHA
Evaluation	non-sensitizing
Evaluation/classification	Based on available data, the classification criteria are not met.

Germ cell mutagenicity			
No	**Substance name**	**CAS no.**	**EC no.**
1	**propan-1-ol**	**71-23-8**	**200-746-9**
Type of examination		in vitro gene mutation study in bacteria	
Species		Salmonella typhimurium / Escherichia coli	
Method		OECD 471	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
Type of examination		In vitro mammalian cell gene mutation test	
Species		Chinese hamster Ovary (CHO)	
Method		OECD 476	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
Type of examination		In vitro Mammalian Chromosomal Aberration Test	
Species		Chinese hamster V79 cells	
Method		OECD 473	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
2	**ethanol**	**64-17-5**	**200-578-6**
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 met.	
Type of examination		in vitro gene mutation study in mammalian cells	
Species		mouse lymphoma cells	
Method		OECD 476	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
Type of examination		Genotoxicity in vivo	
Species		mouse	
Method		OECD 478	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	

Reproduction toxicity			
No	**Substance name**	**CAS no.**	**EC no.**
1	**propan-1-ol**	**71-23-8**	**200-746-9**
Route of exposure		inhalational	
Type of examination		Toxicity study	
Species		rat	
Method		OECD 413	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
Route of exposure		inhalational	
Type of examination		Prenatal Developmental Toxicity Study	
Species		rat	
Method		OECD 414	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
2	**ethanol**	**64-17-5**	**200-578-6**
Route of exposure		oral	
NOAEL			

Type of examination	2 generation study
Species	mouse
Method	OECD 416
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.
Route of exposure	inhalational
NOAEL	>= 20000 ppm
Type of examination	Prenatal Developmental Toxicity Study
Species	rat
Method	OECD 414
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.

Carcinogenicity			
No	**Substance name**	**CAS no.**	**EC no.**
1	**ethanol**	**64-17-5**	**200-578-6**
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	

STOT - single exposure
No data available

STOT - repeated exposure			
No	**Substance name**	**CAS no.**	**EC no.**
1	**propan-1-ol**	**71-23-8**	**200-746-9**
Route of exposure		inhalational	
Species		rat	
Method		OECD 413	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
Route of exposure		oral	
Species		rat	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
2	**ethanol**	**64-17-5**	**200-578-6**
Route of exposure		oral	
Duration of exposure		14	week/s
Species		rat	
Target organ		kidneys	
Method		OECD 408	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	

Aspiration hazard
No data available

11.2 Information on other hazards

Endocrine disrupting properties
No data available.

Other information
No data available.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish (acute)			
No	**Substance name**	**CAS no.**	**EC no.**
1	**propan-1-ol**	**71-23-8**	**200-746-9**
LC50		4555	mg/l
Duration of exposure		96	h
Species		Pimephales promelas	
Method		OECD 203	

Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.

2	**ethanol**	**64-17-5**		**200-578-6**
LC50			14200	mg/l
Duration of exposure			96	h
Species		Pimephales promelas		
Method		EPA		
Source		ECHA		

Toxicity to fish (chronic)
No data available

Toxicity to Daphnia (acute)				
No	**Substance name**	**CAS no.**		**EC no.**
1	**propan-1-ol**	**71-23-8**		**200-746-9**
EC50			3644	mg/l
Duration of exposure			48	h
Species		Daphnia magna		
Method		DIN 38412 Part 11		
Source		ECHA		
Evaluation/classification		Based on available data, the classification criteria are not met.		
2	**ethanol**	**64-17-5**		**200-578-6**
EC50			5012	mg/l
Duration of exposure			48	h
Species		Ceriodaphnia dubia		
Method		ASTM Standard E 729-80		
Source		ECHA		

Toxicity to Daphnia (chronic)				
No	**Substance name**	**CAS no.**		**EC no.**
1	**ethanol**	**64-17-5**		**200-578-6**
NOEC			9.6	mg/l
Duration of exposure			9	day(s)
Species		Daphnia magna		
Source		ECHA		

Toxicity to algae (acute)				
No	**Substance name**	**CAS no.**		**EC no.**
1	**propan-1-ol**	**71-23-8**		**200-746-9**
EC50			9170	mg/l
Duration of exposure			72	h
Species		Pseudokirchneriella subcapitata		
Source		ECHA		
Evaluation/classification		Based on available data, the classification criteria are not met.		
2	**ethanol**	**64-17-5**		**200-578-6**
EC50			275	mg/l
Duration of exposure			72	h
Species		Chlorella vulgaris		
Method		OECD 201		
Source		ECHA		

Toxicity to algae (chronic)
No data available

Bacteria toxicity
No data available

12.2 Persistence and degradability

Biodegradability				
No	**Substance name**	**CAS no.**		**EC no.**
1	**propan-1-ol**	**71-23-8**		**200-746-9**
Type		aerobic biodegradation		
Value			75	%
Duration			20	day(s)

Source	ECHA			
Evaluation	readily biodegradable			
2 ethanol	**64-17-5**		**200-578-6**	
Type	aerobic biodegradation			
Value	appr.	84	%	
Duration		20	day(s)	
Source	ECHA			
Evaluation	readily biodegradable			

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log value)				
No	**Substance name**	**CAS no.**		**EC no.**
1	**propan-1-ol**	**71-23-8**		**200-746-9**
log Pow	0.2	- 1.6		
Reference temperature		25	°C	
with reference to	pH 7			
Method	OECD 117			
Source	ECHA			
2	**ethanol**	**64-17-5**		**200-578-6**
log Pow		-0.35		
Reference temperature		24	°C	
with reference to	pH 7,4			
Method	OECD 107			
Source	ECHA			

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	
PBT assessment	The product is not considered to be a PBT.
vPvB assessment	The product is not considered to be a vPvB.

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

14.1 Transport ADR/RID/ADN

Class	3
Classification code	F1
Packing group	III

Hazard identification no.	30
UN number	UN1987
Proper shipping name	ALCOHOLS, N.O.S.
Technical name	propan-1-ol ethanol
Tunnel restriction code	D/E
Label	3

14.2 Transport IMDG

Class	3
Packing group	III
UN number	UN1987
Proper shipping name	ALCOHOLS, N.O.S.
Technical name	propan-1-ol ethanol
EmS	F-E, S-D
Label	3

14.3 Transport ICAO-TI / IATA

Class	3
Packing group	III
UN number	UN1987
Proper shipping name	Alcohols, n.o.s.
Technical name	propan-1-ol ethanol
Label	3

14.4 Other information

No data available.

14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

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, 40
The product contains following substance(s) that are considered being subject to REACH regulation (EC) 1907/2006 annex XVII.				
No	**Substance name**	**CAS no.**	**EC no.**	**No**
1	**propan-1-ol**	**71-23-8**	**200-746-9**	**75**

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances	
This product is subject to Part I of Annex I, risk category:	P5c

Directive 2010/75/EU on industrial emissions (integrated pollution prevention and control)	
VOC content	61 %

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 been carried out for the following substance/s in this mixture: A Chemical Safety Assessment has been carried out for one or more of the substances within this mixture.

CAS no. 71-23-8
EC no. 200-746-9

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)

H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.

Creation of the safety data sheet
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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.

Prod-ID 760610