

Safety Data Sheet

Secolube Special

Safety Data Sheet dated 29/01/2023 version 9

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

1.1. Product identifier

Trade name: Secolube Special

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

Recommended use: FOR PROFESSIONAL USE

Uses advised against: N.A.

1.3. Details of the supplier of the safety data sheet

Company:

ESSECO S.r.l. Via San Cassiano 99

28069 - Trecate (NO)

Italy

Enartis - Phone n. +39-0321-790300

Competent person responsible for the safety data sheet: vino@enartis.it

1.4. Emergency telephone number

Enartis - Phone n. +39-0321-790300

Malta: 112

SECTION 2: Hazards identification



2.1. Classification of the substance or mixture

Regulation (EC) n. 1272/2008 (CLP)

Skin Irrit. 2 Causes skin irritation.

Eye Dam. 1 Causes serious eye damage.

Flam. Liq. 3 Flammable liquid and vapour.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Regulation (EC) No 1272/2008 (CLP):

Pictograms and Signal Words



Danger

Hazard statements

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H318 Causes serious eye damage.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves and protective clothing and eye protection and 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 doctor.

P370+P378 In case of fire, use a CO2 fire extinguisher to extinguish.

Special Provisions:

EUH208 Contains 1,2-BENZISOTIAZOL-3(2H)-ONE; 1,2-BENZISOTIAZOLIN-3-ONE. May produce an allergic reaction.

Special provisions according to Annex XVII of REACH and subsequent amendments:

None.

2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration $\geq 0.1\%$

Other Hazards: No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Mixture identification: Secolube Special

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Numb.	Classification	Registration Number
$\geq 12.5 - < 15\%$	Tea - Alkylbenzene Sulphonate	CAS:27323-41-7 EC:248-406-9	Skin Irrit. 2, H315; Eye Irrit. 2, H319	
$\geq 3 - < 5\%$	Isopropyl Alcohol, Propan-2-Ol	CAS:67-63-0 EC:200-661-7 Index:603-117-00-0	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	01-2119457558-25-XXXX
$\geq 3 - < 5\%$	Tetrasodium Ethylenediaminetetraacetate	CAS:64-02-8 EC:200-573-9 Index:607-428-00-2	Met. Corr. 1, H290; Acute Tox. 4, H302; Acute Tox. 4, H332; Eye Dam. 1, H318; STOT RE 2, H373; Skin Corr. 1B, H314	01-2119486762-27-XXX
$\geq 1 - < 3\%$	2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve	CAS:111-76-2 EC:203-905-0 Index:603-014-00-0	Eye Irrit. 2, H319; Skin Irrit. 2, H315; Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332	
$\geq 0.25 - < 0.5\%$	Ethanol; Ethyl alcohol	CAS:64-17-5 EC:200-578-6 Index:603-002-00-5	Flam. Liq. 2, H225; Eye Irrit. 2, H319	01-2119457610-43-XXXX
$\geq 0.25 - < 0.5\%$	Potassium Hydroxide, Caustic Potash	CAS:1310-58-3 EC:215-181-3 Index:019-002-00-8	Met. Corr. 1, H290 Skin Corr. 1A, H314 Acute Tox. 4, H302 Specific Concentration Limits: 0.5% \leq C < 2%: 3.2/2,H315 0.5% \leq C < 2%: 3.3/2,H319 2% \leq C < 5%: 3.2/1B,H314 5% \leq C < 100%: 3.2/1A,H314	01-2119487136-33-XXXX
< 0.1 %	GLICOL ETILENICO ETILEN GLICOL	CAS:107-21-1	Acute Tox. 4, H302; STOT RE 2, H373	
< 0.1 %	1,2-BENZISOTIAZOL-3(2H)-ONE; 1,2-BENZISOTIAZOLIN-3-ONE	CAS:2634-33-5	Acute Tox. 4, H302; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Dam. 1, H318; Aquatic Acute 1, H400; Skin Sens. 1,1A,1B, H317, M:1	

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

After contact with skin, wash immediately with soap and plenty of water.

Wash immediately with water.

Wash thoroughly the body (shower or bath).

In case of persistent skin irritation consult a doctor.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Protect uninjured eye.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and hazard labelling.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

Eye irritation

Eye damages

Skin Irritation

Erythema

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

In case of fire, use a CO2 fire extinguisher to extinguish.

Foaming

Extinguishing media which must not be used for safety reasons:

Direct water jet on the product

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

5.3. Advice for firefighters

Wear suitable protective clothing (helmet, protective clothings, goggles, fire resistant gloves, boots) and protect respiratory organs (self contained breathing apparatus).

Use suitable breathing apparatus .

Move undamaged containers from immediate hazard area if it can be done safely.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove all sources of ignition.

Remove persons to safety.

See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand

Dispose of the collected material in accordance with the current regulations.

Wash with plenty of water.

Retain contaminated washing water and dispose it.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Advice on general occupational hygiene:

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.

Keep away from open flames, sparks and heat sources.
Cool and adequately ventilated.

7.3. Specific end use(s)

Recommendation(s)

None in particular

Industrial sector specific solutions:

None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Community Occupational Exposure Limits (OEL)

	OEL Type	Ceilin g	Long Term mg/m3	Long Term ppm	Short Term mg/m3	Short Term ppm	Notes
Isopropyl Alcohol, Propan-2-Ol CAS: 67-63-0	ACGIH			200.000		400.000	A4, BEI - Eye and URT irr, CNS impair
	National		980.000	400.000	1225.000	500.000	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
	MAK		500.000	200.000	1000.000	400.000	
Tetrasodium Ethylenediaminetetraacetate CAS: 64-02-8	ACGIH		2				
2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve CAS: 111-76-2	EU		98	20	246	50	Skin
	ACGIH			20			A3, BEI - Eye and URT irr
Ethanol; Ethyl alcohol CAS: 64-17-5	ACGIH					1000.000	A3 - URT irr
	National					3300.000	US IDLH (10% LEL)
	National		1900.000	1000.000		1000.000	Mexico
	MAK		960.000	500.000	1920.000	1000.000	
Potassium Hydroxide, Caustic Potash CAS: 1310-58-3	MAK		2				
	ACGIH	C			2		URT, eye, and skin irr

Biological limit values

Value	UoM	Medium	Biological Indicator	Sampling Period
Isopropyl Alcohol, 40 Propan-2-Ol CAS: 67-63-0	mg/L		Acetone in urine	End of turn; End of working week

Predicted No Effect Concentration (PNEC) values

	PNEC Limit	Exposure Route	Exposure Frequency	Remark
Tetrasodium Ethylenediaminetetraacetate CAS: 64-02-8	2.2 mg/l	Fresh Water		
	1.2 mg/l	Intermittent releases (fresh water)		
	0.22 mg/l	Marine water		
	0.72 mg/kg	Soil		
Ethanol; Ethyl alcohol CAS: 64-17-5	0.79 mg/l	Marine water		
	0.96 mg/l	Fresh Water		

0.72 mg/kg	Food chain
3.6 mg/kg	Freshwater sediments
2.9 mg/kg	Marine water sediments

Derived No Effect Level (DNEL) values

	Worker Industry	Worker Professional	Consumer	Exposure Route	Exposure Frequency	Remark
Tetrasodium Ethylenediaminetetraacetate CAS: 64-02-8		1.5 mg/m ³	0.6 mg/m ³	Human Inhalation	Long Term (repeated)	
		3 mg/m ³	1.2 mg/m ³	Human Inhalation	Short Term (acute)	
			25 mg/kg bw/d	Human Oral	Long Term (repeated)	
Ethanol; Ethyl alcohol CAS: 64-17-5		1900 mg/m ³		Human Inhalation	Short Term (acute)	
		950 mg/m ³		Human Inhalation	Long Term, systemic effects	
		343 mg/kg		Human Dermal	Long Term, systemic effects	
Potassium Hydroxide, Caustic Potash CAS: 1310-58-3		1 mg/m ³	1 mg/m ³	Human Inhalation	Long Term, systemic effects	

8.2. Exposure controls

Individual protection measures:

Personal protective equipment selections vary based on potential exposure conditions and working conditions.

The final choice of protective equipment will depend upon a risk assessment.

Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.

Please see both sections 5 and 6 for information about personal protective equipment to be worn in an emergency (e.g.: fire or unintentional release of the substance).

Eye protection:

Chemical risk goggles (with side protection).

Technical reference standard: UNI EN 166

Protection for skin:

Wear chemical resistant clothing.

Technical reference standard: UNI EN 13034

Wear chemical resistant safety shoes.

Technical reference standard: UNI EN 20345

Protection for hands:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Glove suitability and breakthrough time will differ depending on the specific use conditions.

Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions.

Use protective gloves that provides comprehensive protection.

NBR (nitrile rubber) (Recommended thickness of the material: 0.4 mm; Permeation time: > 480 min)

UNI EN 420/UNI EN 374

Respiratory protection:

Depending on the potential for exposure, select respiratory protective equipment suitable for the specific conditions of use and in compliance with current legislation.

Half-face mask with combined filter

Technical reference standard for filters to be used in the presence of gases and vapours: UNI EN 14387

Combined filter: E-P2 (yellow-white colour)

Thermal Hazards:

N.A.

Environmental exposure controls:

N.A.

Hygienic and Technical measures

N.A.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical State: Liquid
Color: N.A.
Odour: Characteristic
Odour threshold: N.A.
pH: 11
Kinematic viscosity: N.A.
Melting point / freezing point: -5°C
Initial boiling point and boiling range: 98°C
Flash point: 50°C
Upper/lower flammability or explosive limits: N.A.
Vapour density: N.A.
Vapour pressure: N.A.
Relative density: 1.04 g/mL
Solubility in water: 100%
Solubility in oil: 0%
Partition coefficient (n-octanol/water): N.A.
Auto-ignition temperature: N.A.
Decomposition temperature: N.A.
Flammability: The product is classified Flam. Liq. 3 H226
Volatile Organic compounds - VOCs = N.A.

Particle characteristics:

Particle size: N.A. (Does not apply to liquid.)

9.2. Other information

Miscibility: N.A.
Conductivity: N.A.
Evaporation rate: N.A.
No other relevant information

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

None in particular.

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

Avoid contact with oxidising substances.

10.6. Hazardous decomposition products

Carbon Dioxide

SECTION 11: Toxicological information

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

Toxicological Information of the Preparation

a) acute toxicity	Not classified Based on available data, the classification criteria are not met
b) skin corrosion/irritation	The product is classified: Skin Irrit. 2(H315)
c) serious eye damage/irritation	The product is classified: Eye Dam. 1(H318)
d) respiratory or skin sensitisation	Not classified Based on available data, the classification criteria are not met
e) germ cell mutagenicity	Not classified Based on available data, the classification criteria are not met
f) carcinogenicity	Not classified Based on available data, the classification criteria are not met
g) reproductive toxicity	Not classified

		Based on available data, the classification criteria are not met
h) STOT-single exposure		Not classified
		Based on available data, the classification criteria are not met
i) STOT-repeated exposure		Not classified
		Based on available data, the classification criteria are not met
j) aspiration hazard		Not classified
		Based on available data, the classification criteria are not met

Toxicological information on main components of the mixture:

Tea - Alkylbenzene Sulphonate	a) acute toxicity	LD50 Skin Rabbit > 23220 mg/kg	
Isopropyl Alcohol, Propan-2-Ol	a) acute toxicity	LD50 Oral Rat > 4396 mg/kg	
		LD50 Skin Rabbit = 12.8 g/kg	
		LC50 Inhalation Rat = 72600 mg/m ³ 4h	
		LC50 Inhalation Mouse = 27200 mg/m ³ 4h	
Tetrasodium Ethylenediaminetetraacetate	a) acute toxicity	LD50 Oral Rat > 2000 mg/kg	
		LC50 Inhalation Rat > 1 mg/l	
	b) skin corrosion/irritation	Skin Corrosive Skin Rabbit Negative	
		Eye Irritant Skin Rabbit Positive	
	d) respiratory or skin sensitisation	Respiratory Sensitization Inhalation Positive	
2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve	a) acute toxicity	LD50 Oral Rat 1746 mg/kg	
	b) skin corrosion/irritation	Skin Irritant Rabbit Positive	
	c) serious eye damage/irritation	Iritis Rabbit Positive	
Ethanol; Ethyl alcohol	a) acute toxicity	LC50 Inhalation Mouse = 39 g/m ³ 4h	
		LC50 Inhalation Rat = 2000 ppm	10h
		LD50 Oral Mouse = 3450 mg/kg	
		LD50 Oral Rabbit = 6300 mg/kg	
		LD50 Oral Rat = 7060 mg/kg	
		LD50 Skin Rat = 20 ml/Kg	
Potassium Hydroxide, Caustic Potash	a) acute toxicity	LD50 Oral Rat = 214 mg/kg	
	b) skin corrosion/irritation	Eye Corrosive Positive	
		Skin Corrosive Skin Positive	
GLICOL ETILENICO ETILEN GLICOL	a) acute toxicity	LD50 Oral Rat = 4700 mg/kg	
		LD50 Skin Rabbit > 2000 mg/kg	
		LC50 Inhalation Rat > 5 mg/l 4h	
1,2-BENZISOTIAZOL-3(2H)-ONE; 1,2-BENZISOTIAZOLIN-3-ONE	a) acute toxicity	LD50 Oral Rat 1193 mg/kg	
		LD50 Skin Rat 4115 mg/kg	
	b) skin corrosion/irritation	Skin Irritant Positive	

c) serious eye
damage/irritation

Eye Corrosive Positive

11.2. Information on other hazards

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration $\geq 0.1\%$

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

List of Eco-Toxicological properties of the product

Not classified for environmental hazards.

No data available for the product

List of Eco-Toxicological properties of the components

Component	Ident. Numb.	Ecotox Data
Isopropyl Alcohol, Propan-2-Ol	CAS: 67-63-0 - EINECS: 200- 661-7 - INDEX: 603-117-00-0	a) Aquatic acute toxicity : LC50 Daphnia > 100 mg/l 48h a) Aquatic acute toxicity : EC50 Fish = 10000 mg/l 48h a) Aquatic acute toxicity : LC50 Fish > 1400 mg/l 96h a) Aquatic acute toxicity : LC50 Fish = 6550 mg/l 96h b) Aquatic chronic toxicity : NOEC Daphnia = 141 mg/l 384h b) Aquatic chronic toxicity : NOEC Daphnia = 30 mg/l 504h
Tetrasodium Ethylenediaminetetraacetate	CAS: 64-02-8 - EINECS: 200- 573-9 - INDEX: 607-428-00-2	a) Aquatic acute toxicity : EC50 Daphnia > 100 mg/l 48h - Data derived from substances / products of similar composition or structure a) Aquatic acute toxicity : LC50 Fish > 100 mg/l 96h a) Aquatic acute toxicity : NOEC Fish > 36.9 mg/l 840h - Data derived from substances / products of similar composition or structure a) Aquatic acute toxicity : NOEC Daphnia > 25 mg/l 504h - Data derived from substances / products of similar composition or structure a) Aquatic acute toxicity : EC50 Algae > 100 mg/l 72h
2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve	CAS: 111-76-2 - EINECS: 203- 905-0 - INDEX: 603-014-00-0	b) Aquatic chronic toxicity : NOEC Fish > 100 mg/l 21 d - Brachydanio rerio (semistatico) b) Aquatic chronic toxicity : NOEC Daphnia 100 mg/l 21 d - „Daphnia magna (OECD - linea guida 211, semistatico)
Ethanol; Ethyl alcohol	CAS: 64-17-5 - EINECS: 200- 578-6 - INDEX: 603-002-00-5	a) Aquatic acute toxicity : EC50 Daphnia = 2 mg/l 48h a) Aquatic acute toxicity : LC50 Fish > 12 mg/l 48h
GLICOL ETILENICO ETILEN GLICOL	CAS: 107-21-1	a) Aquatic acute toxicity : LC50 Fish > 100 mg/l 96h a) Aquatic acute toxicity : EC50 Daphnia > 100 mg/l 48h a) Aquatic acute toxicity : EC50 Algae > 100 mg/l 72h a) Aquatic acute toxicity : EC50 Bacteria > 100 mg/l 3h
1,2-BENZISOTIAZOL-3(2H)-ONE; 1,2-BENZISOTIAZOLIN-3-ONE	CAS: 2634-33-5	a) Aquatic acute toxicity : LC50 Oncorhynchus mykiss = 2.18 mg/l 96h - OECD 203 S 2746 a) Aquatic acute toxicity : EC50 Daphnia = 3.27 mg/l 48h - OECD 202 CAR a) Aquatic acute toxicity : EC50r Algae = 0.11 mg/l 72h - OECD 211 s 803 b) Aquatic chronic toxicity : EC10 Pseudokirchneriella subcapitata = 0.04 mg/l 72h - OECD 201 S 2238

a) Aquatic acute toxicity : EC50 Pseudokirchneriella subcapitata = 0.11 mL/L
72h - OECD 201 S 2238

a) Aquatic acute toxicity : NOEC Oncorhynchus mykiss = 0.21 mg/l - OECD
215 S 805

a) Aquatic acute toxicity : NOEC Daphnia = 1.2 mg/l 21 d

12.2. Persistence and degradability

N.A.

12.3. Bioaccumulative potential

Component	Bioaccumulation	Test	Duration	Value
Tetrasodium Ethylenediaminetetraacetate	Not bioaccumulative	BCF - Bioconcentration factor	28d	1.800

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

No PBT, vPvB or endocrine disruptor substances
present in concentration $\geq 0.1\%$

12.6. Endocrine disrupting properties

No endocrine disruptor substances present in concentration $\geq 0.1\%$

12.7. Other adverse effects

N.A.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

SECTION 14: Transport information

14.1. UN number or ID number

1987

14.2. UN proper shipping name

ADR-Shipping Name: ALCOHOLS, N.O.S. (ETHANOL - Isopropyl Alcohol, Propan-2-Ol)

IATA-Technical name: ALCOHOLS, N.O.S. (ETHANOL - Isopropyl Alcohol, Propan-2-Ol)

IMDG-Technical name: ALCOHOLS, N.O.S. (ETHANOL - Isopropyl Alcohol, Propan-2-Ol)

14.3. Transport hazard class(es)

ADR-Class: 3

IATA-Class: 3

IMDG-Class: 3

14.4. Packing group

ADR-Packing Group: III

IATA-Packing group: III

IMDG-Packing group: III

14.5. Environmental hazards

Marine pollutant: No

Environmental Pollutant: No

IMDG-EMS: F-E, S-D

14.6. Special precautions for user

Road and Rail (ADR-RID):

ADR-Label: 3

ADR - Hazard identification number: 30

ADR-Special Provisions: 274 601

ADR-Transport category (Tunnel restriction code): 3 (D/E)

Air (IATA):

IATA-Passenger Aircraft: 355

IATA-Cargo Aircraft: 366

IATA-Label: 3

IATA-Subsidiary hazards: -

IATA-Erg: 3L

IATA-Special Provisions: A3 A180

Sea (IMDG):

IMDG-Stowage Code: Category A

IMDG-Stowage Note: -

IMDG-Subsidiary hazards: -

IMDG-Special Provisions: 223 274

14.7. Maritime transport in bulk according to IMO instruments

N.A.

SECTION 15: Regulatory information

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

Regulation (EU) n. 2020/878

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)

Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Regulation (EU) n. 2016/918 (ATP 8 CLP)

Regulation (EU) n. 2016/1179 (ATP 9 CLP)

Regulation (EU) n. 2017/776 (ATP 10 CLP)

Regulation (EU) n. 2018/669 (ATP 11 CLP)

Regulation (EU) n. 2018/1480 (ATP 13 CLP)

Regulation (EU) n. 2019/521 (ATP 12 CLP)

Regulation (EU) n. 2020/217 (ATP 14 CLP)

Regulation (EU) n. 2020/1182 (ATP 15 CLP)

Regulation (EU) n. 2021/643 (ATP 16 CLP)

Regulation (EU) n. 2021/849 (ATP 17 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product: None.

Restrictions related to the substances contained: None.

Provisions related to directive EU 2012/18 (Seveso III):

N.A.

Regulation (EU) No 649/2012 (PIC regulation)

No substances listed

Where applicable, refer to the following regulatory provisions :

3: Severe hazard to waters

SVHC Substances:

No data available

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

SECTION 16: Other information

Code	Description
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H290	May be corrosive to metals.

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

Code	Hazard class and hazard category	Description
2.16/1	Met. Corr. 1	Substance or mixture corrosive to metals, Category 1
2.6/2	Flam. Liq. 2	Flammable liquid, Category 2
2.6/3	Flam. Liq. 3	Flammable liquid, Category 3
3.1/4/Dermal	Acute Tox. 4	Acute toxicity (dermal), Category 4
3.1/4/Inhal	Acute Tox. 4	Acute toxicity (inhalation), Category 4
3.1/4/Oral	Acute Tox. 4	Acute toxicity (oral), Category 4
3.2/1A	Skin Corr. 1A	Skin corrosion, Category 1A
3.2/1B	Skin Corr. 1B	Skin corrosion, Category 1B
3.2/2	Skin Irrit. 2	Skin irritation, Category 2
3.3/1	Eye Dam. 1	Serious eye damage, Category 1
3.3/2	Eye Irrit. 2	Eye irritation, Category 2
3.4.2/1-1A-1B	Skin Sens. 1,1A,1B	Skin Sensitisation, Category 1,1A,1B
3.8/3	STOT SE 3	Specific target organ toxicity — single exposure, Category 3
3.9/2	STOT RE 2	Specific target organ toxicity — repeated exposure, Category 2
4.1/A1	Aquatic Acute 1	Acute aquatic hazard, category 1
4.1/C2	Aquatic Chronic 2	Chronic (long term) aquatic hazard, category 2

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
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3.2/2	Calculation method
3.3/1	Calculation method
2.6/3	On basis of test data

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:

ACGIH: American Conference of Governmental Industrial Hygienists

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

BCF: Biological Concentration Factor

BEI: Biological Exposure Index

BOD: Biochemical Oxygen Demand

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CAV: Poison Center

CE: European Community

CLP: Classification, Labeling, Packaging.
CMR: Carcinogenic, Mutagenic and Reprotoxic
COD: Chemical Oxygen Demand
COV: Volatile Organic Compound
CSA: Chemical Safety Assessment
CSR: Chemical Safety Report
DMEL: Derived Minimal Effect Level
DNEL: Derived No Effect Level.
DPD: Dangerous Preparations Directive
DSD: Dangerous Substances Directive
EC50: Half Maximal Effective Concentration
ECHA: European Chemicals Agency
EINECS: European Inventory of Existing Commercial Chemical Substances.
ES: Exposure Scenario
GefStoffVO: Ordinance on Hazardous Substances, Germany.
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.
IARC: International Agency for Research on Cancer
IATA: International Air Transport Association.
IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
IC50: half maximal inhibitory concentration
ICAO: International Civil Aviation Organization.
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG: International Maritime Code for Dangerous Goods.
INCI: International Nomenclature of Cosmetic Ingredients.
IRCCS: Scientific Institute for Research, Hospitalization and Health Care
KAFH: KAFH
KSt: Explosion coefficient.
LC50: Lethal concentration, for 50 percent of test population.
LD50: Lethal dose, for 50 percent of test population.
LDLo: Leathal Dose Low
N.A.: Not Applicable
N/D: Not defined/ Not available
NIOSH: National Institute for Occupational Safety and Health
NOAEL: No Observed Adverse Effect Level
OSHA: Occupational Safety and Health Administration.
PBT: Persistent, Bioaccumulative and Toxic
PGK: Packaging Instruction
PNEC: Predicted No Effect Concentration.
PSG: Passengers
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL: Short Term Exposure limit.
STOT: Specific Target Organ Toxicity.
TLV: Threshold Limiting Value.
TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
vPvB: Very Persistent, Very Bioaccumulative.
WGK: German Water Hazard Class.

Paragraphs modified from the previous revision:

- SECTION 2: Hazards identification
- SECTION 3: Composition/information on ingredients
- SECTION 4: First aid measures
- SECTION 6: Accidental release measures
- SECTION 8: Exposure controls/personal protection
- SECTION 9: Physical and chemical properties
- SECTION 11: Toxicological information
- SECTION 12: Ecological information
- SECTION 14: Transport information
- SECTION 15: Regulatory information
- SECTION 16: Other information