Version: 02.2020
Rev.0

Material safety data sheet

According to EU Regulation 1907/2006 in the current version

SCI SURFACTANT

1. Identification of the substance/mixture and company

Trade name:	SCI SURFACTANT
Chemical nature:	Coco fatty acid isethionate, sodium salt
INCI	Sodium cocoyl isethionate
CAS No. :	61789-32-0
EINESCS No. :	263-052-5
REACH registration No. :	01-2119456805-31-0000, 01-2119456805-31-0001, 01-2119974104-40-0001, 01-2119974104-40-0006
Utilization:	Raw material for cosmetic or professional use
Supplier company identification:	Elemental SRL, Piața Cazărmii no.15, 410188-Oradea, jud.Bihor, Romania Tel/Fax: +40259-436.755, www.elemental.eu
Emergency:	RO: număr național pentru cazuri de urgență: 021 3183606 Institutul de Sănătate Publică București. International emergency number: +49 180 2273-112

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

Relevant identified uses of the substance or mixture
Industry sector : Personal Care
Type of use : Surface active agent for cosmetics

Exposure scenarios: see annex

2. Hazards Identification

2.1 Classification of the substance or mixture
Classification (REGULATION (EC) No 1272/2008)

Eye irritation, Category 2	H319: Causes serious eye irritation.
Chronic aquatic toxicity, Category 3	H412: Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms	
Signal word	Warning
Hazard statements	H319 Causes serious eye irritation. H412 Harmful to aquatic life with long lasting effects.
Precautionary statements	Prevention: P264 Wash skin thoroughly after handling.

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	P273 Avoid release to the environment. P280 Wear eye protection/ face protection. Response: P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 If eye irritation persists: Get medical advice/ attention. Disposal: P501 Dispose of contents/ container to an approved waste disposal plant.

2.3 Other hazards
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
Risk of dust explosion.

3. Declaration of ingredients

3.1 Substances
Substance name: Coco fatty acid isethionate, sodium salt
EC-No. 263-052-5

3.2 Hazardous components

Chemical name	CAS-No./ EC-No.	Concentration (% w/w)
Coconut fatty acid isethionate-sodium salt	61789-32-0 263-052-5	>= 90 - <= 100
Fatty acids, C8-18 and C18-unsatd.	67701-05-7 266-929-0	>= 3 - < 10

4. First aid measures

4.1 Description of first aid measures

General advice	Remove/Take off immediately all contaminated clothing.
If inhaled	If inhaled, remove to fresh air. Get medical advice/ attention.
In case of skin contact	In case of contact, immediately flush skin with plenty of water.
In case of eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult a physician.
If swallowed	Get medical attention immediately.

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4.2 Most important symptoms and effects, both acute and delayed

Symptoms	irritant effects
Risks	Causes serious eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment	Treat symptomatically.

5. Fire fighting measures

5.1 Extinguishing media

Suitable extinguishing media	Water spray jet Foam
Unsuitable extinguishing media	Dry powder Carbon dioxide (CO2) High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting
In case of fire hazardous decomposition products may be produced such as: Sulphur dioxide (SO2), Sulphur trioxide
Emits toxic and corrosive fumes under fire conditions.
Risk of dust explosion in fine crystalline powder form.

5.3 Advice for firefighters
Special protective equipment: Self-contained breathing apparatus

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Personal precautions : Wear suitable protective equipment. Avoid dust formation.

6.2 Environmental precautions
Environmental precautions : Do not allow to enter drains or waterways

6.3 Methods and material for containment and cleaning up
Methods for cleaning up : Pick up mechanically. Rinse away rest with water.

6.4 Reference to other sections
Information regarding Safe handling, see chapter 7., For personal protection see section 8., For disposal considerations see section 13

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7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling	Handle and open container with care. Avoid dust formation. Avoid dust accumulation in enclosed space.
Advice on protection against fire and explosion	Take precautionary measures against build-up of electrostatic charges, e.g earthing during loading and off-loading operations. Keep away sources of ignition. Dust can form an explosive mixture in air.
Hygiene measures	Wash hands before breaks and at the end of workday. Use protective skin cream before handling the product. Take off immediately all contaminated clothing and wash it before reuse.
Dust explosion class	ST1 Capable of dust explosion

7.2 Conditions for safe storage, including any incompatibilities

Further information on storage conditions	Keep containers tightly closed in a cool, well-ventilated place. Handle and open container with care.

7.3 Specific end use(s)

Specific use(s)	No further recommendations.

8. Exposure controls / personal protection

8.1 Control parameters
Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance	End use	Exposure routes	Potential health effects	Value
Fatty acids, C8-18 and C18-unsatd. CAS-No.: 67701-05-7	Workers	Inhalation	Long-term systemic effects	17,632 mg/m3
Remarks:	DNEL			
	Workers	Skin contact	Long-term systemic effects	10 mg/kg bw/day
Remarks:	DNEL			
	General population	Inhalation	Long-term systemic effects	4,348 mg/m3
Remarks:	DNEL			

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	General population	Skin contact	Long-term systemic effects	5 mg/kg bw/day
Remarks:	DNEL			
	General population	Ingestion	Long-term systemic effects	2,5 mg/kg bw/day
Remarks:	DNEL			
Sodium 2-hydroxyethanesulphonate CAS-No.: 1562-00-1	Workers	Dermal	Long-term systemic effects	5 mg/kg bw/day
Remarks:	DNEL			
	Workers	Inhalation	Long-term systemic effects	35,3 mg/m3
Remarks:	DNEL			
	General population	Dermal	Long-term systemic effects	2,5 mg/kg bw/day
Remarks:	DNEL			
	General population	Inhalation	Long-term systemic effects	8,7 mg/m3
Remarks:	DNEL			
	General population	Oral	Long-term systemic effects	2,5 mg/kg bw/day
Remarks:	DNEL			
Coconut fatty acid isethionate-sodium salt CAS-No.: 61789-32-0	Workers	Inhalation	Long-term systemic effects	
Remarks:	DNEL			
	General population	Inhalation	Long-term systemic effects	18,5 mg/m3
Remarks:	DNEL			
	Workers	Dermal	Long-term systemic effects	28,75 mg/kg bw/day
Remarks:	DNEL			
	General population	Dermal	Long-term systemic	17,3 mg/kg bw/day
Remarks:	DNEL			

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	General population	Oral	Long-term systemic effects	10,7 mg/kg bw/day
Remarks:	DNEL			

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental compartment	Value
Fatty acids, C8-18 and C18- unsatd. CAS-No.: 67701-05-7	Fresh water	0,031 mg/l
	Marine water	0,003 mg/l
	Water (intermittent release)	0,036 mg/l
	Sewage treatment plant	912 mg/l
	Fresh water sediment	1,67 mg/kg dry weight (d.w.)
	Marine sediment	0,167 mg/kg dry weight (d.w.)
	Soil	0,314 mg/kg dry weight (d.w.)
Sodium 2- hydroxyethanesulphonate CAS-No.: 1562-00-1	Fresh water	2 mg/l
	salt water	0,2 mg/l
	Sewage treatment plant	100 mg/l
Coconut fatty acid isethionate sodium salt CAS-No.: 61789-32-0	Fresh water	4,8 µg/l
	salt water	0,48 µg/l
	Water (intermittent release)	48 µg/l
	Sewage treatment plant	6,87 mg/l
	Fresh water sediment	714 µg/kg sediment dw
	Marine sediment	71,4 µg/kg sediment dw
	Soil	0,1394 mg/kg dry weight (d.w.)
	Secondary Poisoning	94,7 mg/kg food

8.2 Exposure controls
Personal protective equipment

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Eye protection : depending on the risk, wear sufficient eye protection (safety glasses with side protection or goggles, and if necessary, face shield.)

Hand protection :Long-term exposure Impervious butyl rubber gloves.
Minimum thickness (glove): not determined
With solid dry substances permeation is not to be expected, therefore the breakthrough time for this protective glove has not been measured.
For short-term exposure (splash protection): Nitrile rubber gloves. Minimum thickness (glove): not determined With solid dry substances permeation is not to be expected, therefore the breakthrough-time for this protective glove has not been measured.
These types of protective gloves are offered by various manufacturers. Please note the manufacturers´ detailed statements, especially about the minimum thickness and the minimum breakthrough time. Consider also the particular working conditions under which the gloves are being used.

Respiratory protection : Use respiratory protection in case of insufficient exhaust ventilation or prolonged exposure
Full mask to standard DIN EN 136
Respirator with a particle filter (EN 143)
The use of filter apparatus presupposes that the environment atmosphere contains at least 17% oxygen by volume, and does not exceed the maximum gas concentration, usually 0.5% by volume. Relevant guidelines to be considered include EN 136/141/143/371/372 as well as other national regulations.

Protective measures : Avoid contact with skin and eyes. Do not breathe dust.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Granules
Colour	White to off-white
Odour	characteristic
Odour Threshold	not tested.
pH	5 - 6 (20 °C) Concentration: 100 g/l Method: DIN 53996 Suspension in water
Melting point	179 - 180 °C
Boiling point	> 200 °C
Flash point	> 100 °C
Evaporation rate	not tested.
Flammability (solid, gas)	not determined

Burning number	3 Local combustion without spreading
Upper explosion limit / upper flammability limit	Not applicable
Lower explosion limit / Lower flammability limit	Not applicable
Vapour pressure	< 0,001 mbar (25 °C)
Relative vapour density	not tested.
Density	Not applicable
Bulk density	500 kg/m3
Water solubility	practically insoluble (20 °C)
Solubility in other solvents	slightly soluble
Partition coefficient: n octanol/water	log Pow: -0,41
Auto-ignition temperature	Not applicable
Decomposition temperature	321 °C
Viscosity, dynamic	Not applicable
Viscosity, kinematic	not tested.
Explosive properties	no data available
Oxidizing properties	not oxidizing

9.2 Other information

Dust explosion class	ST1 Capable of dust explosion
Minimum ignition energy	30 - 100 mJ
Particle size	not tested
Self-ignition	240 °C

10. Stability and reactivity

10.1 Reactivity
See section 10.3. "Possibility of hazardous reactions"

10.2 Chemical stability
Stable

10.3 Possibility of hazardous reactions
Hazardous reactions : No dangerous reaction known under conditions of normal use.
Stable

10.4 Conditions to avoid
not known

10.5 Incompatible materials
not known

10.6 Hazardous decomposition products
No decomposition if stored and applied as directed.

11. Toxicological information

11.1 Information on toxicological effects
Acute toxicity
Product:

Acute oral toxicity	LD50 (Rat): > 2.000 mg/kg Method: OECD Test Guideline 401
Acute dermal toxicity	Remarks: not tested.

Components:
Coconut fatty acid isethionate-sodium salt:

Acute oral toxicity	LD50 (Rat, male and female): > 2.000 g/kg Method: OECD Test Guideline 401
Acute inhalation toxicity	Remarks: no data available
Acute dermal toxicity	Remarks: no data available

Fatty acids, C8-18 and C18-unsatd.:

Acute oral toxicity	LD50 (Rat): > 5.000 mg/kg Method: OECD Test Guideline 401
Acute inhalation toxicity	LC50 (Rat): > 0,1624 mg/l Exposure time: 4 h Remarks: By analogy with a product of similar composition
Acute dermal toxicity	LD50 (Rabbit): 2.000 mg/kg Method: OECD Test Guideline 434

Remarks: By analogy with a product of similar composition

Skin corrosion/irritation
Product:

Species	Rabbit

Method	OECD Test Guideline 404
Result	No skin irritation

Components:
Coconut fatty acid isethionate-sodium salt:

Species	Rabbit
Exposure time	4 h
Method	OECD Test Guideline 404
Result	No skin irritation
GLP	no

Fatty acids, C8-18 and C18-unsatd.:

Species	Rabbit
Method	OECD Test Guideline 404
Result	Skin irritation
Remarks	By analogy with a product of similar composition

Serious eye damage/eye irritation
Product:

Species	rabbit eye
Method	OECD Test Guideline 405
Result	irritating

Components:
Coconut fatty acid isethionate-sodium salt:

Species	Rabbit
Method	OECD Test Guideline 405
Result	Irritating to eyes.
GLP	yes

Fatty acids, C8-18 and C18-unsatd.:

Species	rabbit eye
Assessment	Risk of serious damage to eyes.
Method	OECD Test Guideline 405
Result	Eye irritation

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Remarks	By analogy with a product of similar composition

Respiratory or skin sensitisation
Product:

Species	Guinea pig
Method	OECD Test Guideline 406
Result	Did not cause sensitisation on laboratory animals.

Components:
Coconut fatty acid isethionate-sodium salt:

Test Type	Guinea pig maximization test
Exposure routes	Dermal
Species	Guinea pig
Method	OECD Test Guideline 406
Result	Not a skin sensitizer.
GLP	yes
Assessment	Causes serious eye irritation.

Fatty acids, C8-18 and C18-unsatd.:

Remarks	This information is not available.
Assessment	Causes skin irritation., Causes serious eye damage.

Germ cell mutagenicity
Product:

Germ cell mutagenicity Assessment	Not mutagenic in Ames Test

Components:
Coconut fatty acid isethionate-sodium salt:

Germ cell mutagenicity Assessment	In vitro tests did not show mutagenic effects

Fatty acids, C8-18 and C18-unsatd.:

Genotoxicity in vitro	Remarks: no data available
Germ cell mutagenicity Assessment	No information available.

Carcinogenicity
Product:

Carcinogenicity - Assessment	No information available.

Components:
Coconut fatty acid isethionate-sodium salt:

Carcinogenicity - Assessment	No information available.

Fatty acids, C8-18 and C18-unsatd.:

Carcinogenicity - Assessment	No information available.

Reproductive toxicity
Product:

Reproductive toxicity - Assessment	No information available.

Components:
Coconut fatty acid isethionate-sodium salt:

Effects on fertility	Test Type: One generation study Species: Rat, male and female Strain: wistar Application Route: oral (gavage) Dose: 100, 300, 1000 mg/kg bw/day Duration of Single Treatment: 28 - 70 d General Toxicity - Parent: NOAEL: 1.000 mg/kg body weight Method: OECD Test Guideline 416 GLP: yes Remarks: By analogy with a product of similar composition
Effects on foetal development	Test Type: Pre-natal Species: Rat, female Strain: wistar Application Route: oral (gavage) Dose: 100, 300, 1000 mg/kg bw/d Duration of Single Treatment: 20 d
Frequency of Treatment: 1 daily General Toxicity Maternal: NOEL: 1.000 mg/kg body weight Developmental Toxicity: NOEL: 1.000 mg/kg body weight Method: OECD Test Guideline 414 GLP: yes Remarks: By analogy with a product of similar composition	
Reproductive toxicity - Assessment	No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

Fatty acids, C8-18 and C18-unsatd.:

Effects on fertility	Remarks: This information is not available.
Effects on foetal development	Remarks: This information is not available.
Reproductive toxicity - Assessment	No information available.

STOT - single exposure
Product:

Remarks	not tested.

Components:
Coconut fatty acid isethionate-sodium salt:

Assessment	The substance or mixture is not classified as specific target organ toxicant, single exposure.

Fatty acids, C8-18 and C18-unsatd.:
STOT - repeated exposure
Product:

Remarks	not tested.

Components:
Coconut fatty acid isethionate-sodium salt:

Assessment	The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Fatty acids, C8-18 and C18-unsatd.:

Remarks	no data available

Repeated dose toxicity
Product:

Remarks	not tested.

Components:
Coconut fatty acid isethionate-sodium salt:

Species	Rat, male and female
NOAEL	426 mg/kg bw/day
Application Route	oral (gavage)
Exposure time	91 - 92 d
Number of exposures	daily
Dose	50 ,200 ,1000 mg/kg bw

Group	yes, concurrent vehicle
Method	OECD Test Guideline 408
GLP	yes
Remarks	By analogy with a product of similar composition
Species	Rat, male and female
NOAEL	> 2070 mg/kg bw/day
Application Route	Dermal
Exposure time	6 hours
Number of exposures	once per day for 28 days
Dose	0, 0,08, 0,91, 2,07 g/kg
Group	yes, concurrent vehicle
Method	OECD Test Guideline 410
GLP	yes
Remarks	By analogy with a product of similar composition

Fatty acids, C8-18 and C18-unsatd.:

Remarks	This information is not available.

Aspiration toxicity
Components:
Coconut fatty acid isethionate-sodium salt: no data available

Fatty acids, C8-18 and C18-unsatd.:
No aspiration toxicity classification

12. Ecological information

12.1 Toxicity
Product:

Toxicity to fish	LC50 (Danio rerio (zebra fish)): 10 - 100 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	EC50 (Daphnia magna (Water flea)): 30 mg/l Exposure time: 48 h Method: DIN 38412 T.11
Toxicity to algae	EC10 (Pseudokirchneriella subcapitata (algae)): 0,3 mg/l

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	Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to microorganisms	EC50 : > 1.000 mg/l Method: OECD Test Guideline 209

Components:
Coconut fatty acid isethionate-sodium salt:

Toxicity to fish	LC50 (Oncorhynchus mykiss (rainbow trout)): 9,9 mg/l End point: mortality Exposure time: 96 h Test Type: semi-static test Method: OECD Test Guideline 203 GLP: yes Remarks: The values mentioned are those of the active ingredient.
Toxicity to daphnia and other aquatic invertebrates	EC50 (Daphnia magna (Water flea)): > 32 mg/l End point: Immobilization Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202 GLP: yes Remarks: By analogy with a product of similar composition
Toxicity to algae	ErC50 (Pseudokirchneriella subcapitata (green algae)): 4,8 mg/l End point: Growth rate Exposure time: 72 h Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 201 GLP: yes
	NOEC (Pseudokirchneriella subcapitata (green algae)): 0,31 mg/l End point: Growth rate Exposure time: 72 h Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 201 GLP: yes
Toxicity to microorganisms	EC50 (activated sludge): > 687 mg/l End point: Bacteria toxicity (respiration inhibition) Exposure time: 3 h Test Type: static test

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	Method: OECD Test Guideline 209 GLP: no
	Remarks: The values mentioned are those of the active ingredient.
Toxicity to fish (Chronic toxicity)	Remarks: no data available
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	Remarks: no data available

Ecotoxicology Assessment

Chronic aquatic toxicity	Harmful to aquatic life with long lasting effects.

Fatty acids, C8-18 and C18-unsatd.:

Toxicity to fish	LC50 (Oryzias latipes (Orange-red killifish)): 5 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 Remarks: By analogy with a product of similar composition
Toxicity to daphnia and other aquatic invertebrates	(Daphnia magna (Water flea)): 3,6 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 Remarks: By analogy with a product of similar composition
Toxicity to algae	(Pseudokirchneriella subcapitata (green algae)): > 7,6 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: By analogy with a product of similar composition
Toxicity to microorganisms	Remarks: no data available
Toxicity to fish (Chronic toxicity)	Remarks: no data available
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	Remarks: no data available
Toxicity to soil dwelling organisms	Remarks: Not applicable
Plant toxicity	Remarks: Not applicable
Sediment toxicity	Remarks: Not applicable
Toxicity to terrestrial organisms	Remarks: Not applicable

12.2 Persistence and degradability
Product:

Biodegradability	Biodegradation: > 80 %

	Exposure time: 28 d Method: OECD Test Guideline 301E

Components:
Coconut fatty acid isethionate-sodium salt:

Biodegradability	Test Type: aerobic Inoculum: activated sludge Concentration: 2 mg/l Result: Readily biodegradable. Biodegradation: 78 % Related to: Biochemical Oxygen Demand (BOD) Exposure time: 28 d Method: OECD Test Guideline 301D GLP: yes

Fatty acids, C8-18 and C18-unsatd.:

Biodegradability	Test Type: aerobic Result: Readily biodegradable.

12.3 Bioaccumulative potential
Product:

Bioaccumulation	Remarks: Due to the low logPow bioaccumulation is not expected

Components:
Coconut fatty acid isethionate-sodium salt:

Partition coefficient: n-octanol/water	log Pow: -0,41 (20 °C) pH: 7 Method: Other GLP: no Remarks: Calculated on the basis of measured solubilities in water at pH 7 and in n-octanol.

Fatty acids, C8-18 and C18-unsatd.:

Bioaccumulation	Remarks: Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected.

12.4 Mobility in soil
Product:

Distribution among environmental compartments	Remarks: not tested.

Components:
Coconut fatty acid isethionate-sodium salt:

Distribution among environmental compartments	Adsorption Medium: water - soil Koc: 1451, log Koc: 3,2 Method: OECD Test Guideline 106 Remarks: By analogy with a product of similar composition

Fatty acids, C8-18 and C18-unsatd.:

Distribution among environmental compartments	Remarks: no data available

12.5 Results of PBT and vPvB assessment
Product:

Assessment	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Components:
Coconut fatty acid isethionate-sodium salt:

Assessment	The substance is not identified as a PBT or as a vPvB substance.

Fatty acids, C8-18 and C18-unsatd.:

Assessment	This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

12.6 Other adverse effects
Product:

Environmental fate and pathways	Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected.
Additional ecological information	no data available

Components:
Fatty acids, C8-18 and C18-unsatd.:

Additional ecological information	The product should not be allowed to enter drains, water courses or the soil.

13. Disposal considerations

13.1 Waste treatment methods

Product	In accordance with local authority regulations, take to special waste incineration plant
Contaminated packaging	Packaging that cannot be cleaned should be disposed of as product waste

14. Transport information

Section 14.1. to 14.5.
ADR not restricted

ADN not restricted

RID not restricted

IATA not restricted

IMDG not restricted

14.6. Special precautions for user
See sections 6 to 8 of this Safety Data Sheet.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code (International Bulk Chemicals Code)
No transport as bulk according IBC - Code.

15. Regulatory information

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	Not applicable
Regulation (EC) No 850/2004 on persistent organic pollutants	Not applicable

Other regulations:
VDI 2263 "Dust fires and explosions; Danger, Evaluation, Protection measures" Apart from the data/regulations specified in this chapter, no further information is available concerning safety, health and environmental protection.

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15.2 Chemical safety assessment
A Chemical Safety Assessment has been carried out for this substance.

16. Additional information

16.1 Abbreviations:
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
CAS: Chemical Abstracts Service (division of the American Chemical Society).
CLP: Classification, Labeling, Packaging.
DNEL: Derived No Effect Level.
EINECS: European Inventory of Existing Commercial Chemical Substances.
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.
IATA: International Air Transport Association.
IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
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.
LTE: Long-term exposure.
PNEC: Predicted No Effect Concentration.
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.
STE: Short-term exposure.
STEL: Short Term Exposure limit.
STOT: Specific Target Organ Toxicity.

16.3 Full text of other abbreviations
ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging; Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS – Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals

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According to EU Regulation 1907/2006 in the current version
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and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT – Self Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN – United Nations; vPvB - Very Persistent and Very Bioaccumulative

Disclaimer:

This material safety data sheet does not constitute a guarantee of the properties of the product and is not a contractual legal report. The information is given in good faith on the basis of our best knowledge of the product at the indicated time. However, we cannot accept responsibility or liability for any consequences arising from its use, no warranty for correctness and completeness is given. We caution the users against the incurred possible risks when the product is used at other ends than the use for which it was initially planned. It is the user's responsibility during handling, storage and product use to consult the main regulatory texts in force regarding workers and environment protection.