



SODIUM CARBONATE (all types: light, heavy)

Version 4.0

Date of printing 04.01.2023

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

1.1. Product identifier

Trade name	: SODIUM CARBONATE (all types: light, heavy) : sodium
Substance name Index	carbonate : 011-005-00-2
No. CAS	: 497-19-8
No.	: 207-838-8
EC No. Reg.No.REACH	01-2119485498-19-xxxx

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

Use of the substance or mixture : Identified use: see annex for complete overview use (EC)

Unrecommended uses : We haven't found any unadvised uses at this time.

Comment : Before dealing with the exposure scenario, check the quality of the product: the exposure scenario is not linked to the quality of the product!

1.3. Details of the supplier of the safety data sheet

Ekokoza s.r.o
Fryčovice 297
73945 Fryčovice
eshop@ekokoza.cz
+420605779993
ID: 07508247

1.4. Telephone number for emergencies

Telephone number for emergencies	: Toxicology Information Center Na bojišti 1 128 21 Prague tel. 00420-224 919 293
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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Classification according to Regulation (EC) No. 1272/2008

REGULATION (EC) No. 1272/2008			
By hazard class	Hazard categories	Target organs	Standard hazard statements
Eye irritation	Category 2	---	H319

For the full text of the H-statements given in this section, see section 16.

Most serious adverse effects

Human health	: See section 11 for toxicological information
Physical and chemical hazards	: See section 9/10 for physicochemical information
Possible effects on the environment	: See section 12 Ecological information

2.2. Marking elements

Labeling according to Regulation (EC) No. 1272/2008

Danger symbols :



With a signal word : Warning

Standard hazard statements : H319 Causes serious eye irritation.
Instructions for safe handling

Prevention : P264 Wash the skin thoroughly after handling.
P280 Wear safety glasses/face shield.

Measures : P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if worn and if they can be removed easily. Continue rinsing.

P337 + P313 If eye irritation persists: Seek medical attention/treatment.

Hazardous ingredients that must be listed on the label:

- sodium carbonate

2.3. Another danger

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The substance/mixture does not contain components considered to be either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at a concentration of 0.1% or higher.

Ecological information: No information is available on endocrine disrupting properties for the environment.

Toxicological information: No information is available on endocrine disrupting properties for human health.

SECTION 3: Composition/information on ingredients

3.1. Substances

		Classification (REGULATION (EC) No. 1272/2008)	
		By hazard class / Hazard categories	Standard hazard statements
Dangerous components	Content [%]		
sodium carbonate			
Index No.	: 011-005-00-2	>= 90 - <= 100 Eye Irrit.2	H319
CAS No.	: 497-19-8		
EC No.	: 207-838-8		
01-2119485498-19-xxxx REACH			

For the full text of the H-statements given in this section, see section 16.

SECTION 4: First aid measures

4.1. Description of first aid

General instructions	: Remove contaminated clothing immediately.
When inhaled	: Remove victim to fresh air. In case of persistent problems, call a doctor.
In contact with skin	: Wash immediately with soap and plenty of water. If skin irritation persists, call a doctor.
In contact with eyes	: Immediately rinse thoroughly, including under the eyelids, with plenty of water for at least 5 minutes. See an eye doctor immediately. Seek help from a specialist hospital as soon as possible.
When ingested	: Rinse mouth and drink plenty of water. Never give anything by mouth to an unconscious person. In case of persistent problems, call a doctor.

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

Symptoms	: See section 11 for more information on symptoms and health effects
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Effects : See section 11 for more information on symptoms and health effects

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

Treatment : Symptomatic treatment.

SECTION 5: Firefighting measures

5.1. Fire extinguishers

Suitable extinguishing agents : Measures in case of fire should correspond to the surrounding conditions.
Unsuitable fire extinguishers : Full flow of water

5.2. Special hazards arising from the substance or mixture

Specific firefighting hazards : Incomplete combustion may produce toxic pyrolysis products
products.
Hazardous combustion : Carbon monoxide, Carbon dioxide (CO₂)
products

5.3. Instructions for firefighters

Special protective : In case of fire, use self-contained breathing apparatus. Use personal protective
equipment for firefighters equipment.
Additional recommendations. : Collect contaminated water used for extinguishing separately. Water
must not be let into the sewer.

SECTION 6: Accidental release measures

6.1. Personal protection measures, protective equipment and emergency procedures

Personal protection measures : Use suitable protective equipment. Keep unprotected persons at a safe distance.
Provide adequate ventilation.
Avoid contact with skin and eyes.

6.2. Environmental protection measures

Environmental protection : Do not allow to enter surface waters or drains.
measures Prevent subsoil penetration.

6.3. Methods and material for containment and cleaning up

Methods and material for : Pick up mechanically. Store in a suitable closed container.
containment and cleaning
up
More information : Process the collected material in the manner indicated in the "Waste
disposal" section.

6.4. Link to other sections

See Section 1 for emergency contact information. See Section 8 for information on protective equipment and
information on waste handling

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Instructions for safe handling	: Keep the container tightly closed. Use appropriate protective equipment. It is necessary to exclude the formation of dust. Provide adequate ventilation. Avoid splashing on skin and clothing and getting into eyes. An effective and safe eyewash must be located in the nearest distance.
Hygiene measures	: Keep away from food, drink and feed. Smoking, eating and drinking should be prohibited in the area of use. Wash your hands before a work break and after finishing work. Remove contaminated clothing immediately.

7.2. Conditions for safe storage of substances and mixtures, including incompatible substances and mixtures

Requirements for storage areas and containers	: Store in original packaging. Materials suitable for packaging: Polyethylene; Materials not suitable for packaging: Aluminum
Instructions for protection against fire and explosion	: Common fire protection measures.
More information on storage conditions	: Store tightly closed in a cool, dry place. The product is hygroscopic.
Storage instructions	: Keep away from food, drink and feed. Do not store together with acids.

7.3. Specific end / specific end uses

Specific (specific) uses	: Identified use: see attachment for complete overview use (EC)
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SECTION 8: Exposure controls / personal protective equipment

8.1. Control parameters

Folder:	sodium carbonate	CAS No. 497-19-8
levels at which: no adverse effects occur (DNEL)/ minimal adverse effects occur (DMEL)		

TODAY

Workers, Long-term - local effects., Inhalation : 10 mg/m3

DNEL

Consumers, Acute - local effects., Inhalation : 10 mg/m3

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Estimated no-adverse-effect concentration (PNEC)

No PNEC value was derived. :

Other Exposure limit values

Permissible limits and concentrations of chemical substances in workplace air, Permissible exposure limits, Aerosol, inhalable. 5 mg/m³

Permissible limits and concentrations of chemical substances in workplace air, highest permissible concentrations, Aerosol, inhalable. 10 mg/m³

8.2. Limiting exposure

Appropriate technical controls

Refer to paragraphs 7 and 8 for safety precautions.

Personal protective equipment

Respiratory protection

Recommendation : It is required when the exposure limit (e.g. OEL) is exceeded.
Respiratory protection complying with the EN 141 standard.
Breathing mask with dust filter Dust
filter: P2 Dust filter:
P3

Hand protection

Recommendation : Protective gloves conforming to EN 374.
Please follow the glove supplier's instructions regarding permeability and breakthrough time. Also take into account the specific local conditions under which the product is used, such as the risk of cutting, abrasion and long contact time.
Replace protective gloves at the first sign of wear.

Material : Natural rubber : >=
Penetration time 8 h : 0.5
Gloves thickness mm

Material : polychloroprene : >=
Penetration time 8 h : 0.5 mm
Gloves thickness

Material : Nitrile rubber : >=
Penetration time 8 h : 0.35
Gloves thickness mm

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Material : Fluorinated rubber :
Penetration time >= 8 h :
Gloves thickness 0.4 mm

Material : Polyvinyl chloride :
Penetration time >= 8 h : 0.5
Gloves thickness mm

Eye protection

Recommendation : Safety goggles

Skin and body protection

Recommendation : Use personal protective equipment.

Limiting environmental exposure

General instructions : Do not allow to enter surface water or drains.
Prevent subsoil penetration.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form : solid :
Physical condition solid :
Color white :
Odor odorless : No
Odor Threshold data available

Melting point/range : 851 °C

Boiling point/boiling point range: 1,600 °C

Flammability (solids, gases) : This product is not flammable.

Upper explosion limit / Upper flammability limit : This product is not flammable.

Lower explosive limit / Lower flammability limit : This product is not flammable.

Flash-point : Not applicable

Auto-ignition temperature : Data not available

Decomposition temperature : > 400 °C

Autocatalytic Decomposition : Data not available
Temperature
(SADT) pH : 11.2 (20°C)

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Concentration: 1 g/l

Viscosity

Dynamic viscosity : Not applicable

Kinematic viscosity : Not applicable

Discharge time : Data not available

Solubility

Solubility in water : 212.5 g/l (20 °C)
Method: OECD Test Guideline 105

71 g/l (0 °C)

Solubility in other solvents : Data not available

Dissolution rate : Data not available

Partition coefficient: n-octanol/water : Data not available

Dispersion stability : Data not available

Steam pressure : Not applicable

Relative density : 2.52 (20°C)
Method: EU Methods A.3

Density : Data not available

Bulk density : 0.5 - 0.6 kg/dm³ Light soda
0.97 - 1.10 kg/dm³ Heavy soda

Relative vapor density : Data not available

Particle size

Data not available

9.2 Additional Information

Molecular weight : 106 g/mol

SECTION 10: Stability and reactivity

10.1. Reactivity

Recommendation : Decomposition does not occur if the specified method of storage and use is followed.

10.2. Chemical stability

Recommendation : Stable under recommended storage conditions.

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10.3. Possibility of hazardous reactions

Hazardous reactions : The product is hygroscopic. In contact with acids, carbon dioxide is released. In contact with metals, hydrogen gas is produced, which together with air can form explosive mixtures.

10.4. Conditions to avoid

Conditions to avoid : Protect from moisture and contact with water.

Thermal decomposition : > 400 °C

10.5. Incompatible materials

Materials to avoid : Acids, Light metals Aluminum powder

10.6. Hazardous decomposition products

Hazardous decomposition products : Hazardous decomposition products should not be formed under normal conditions of storage and use.

SECTION 11: Toxicological information

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

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Acute toxicity

Orally

LD50 : 2800 mg/kg (Rat, male and female)

Inhalation

LC50 : 2300 mg/m³ (Rat, male (male); 2 h; dust/mist) (OECD Test Guideline 403)
Inhalation may cause coughing and pain in breathing.

Cutaneous

LD50 : > 2000 mg/kg (Rabbit) (EPA 16 CFR 1500)

Irritability

Skin

Result : Non-irritating to skin (Rabbit) (OECD Test Guideline 404)

Eyes

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Result : Irritating to eyes. (Rabbit) (OECD Test Guideline 405)

Sensitization

Result : non-sensitizing

Effects of CMR

CMR properties

Carcinogenicity : The study is not necessary for scientific reasons.
Mutagenicity : In vitro tests did not show mutagenic effects : No
Teratogenicity : developmental effects were observed in animal experiments
fetus.
Reproductive toxicity : The study is not necessary for scientific reasons.

Specific organ toxicity

A single exposure

Comment : The substance or mixture is not classified as a specific pollutant
for target organs, single exposure.

Repeated exposure

Comment : The substance or mixture is not classified as a specific target organ toxin,
repeated exposure.

Other toxic properties

Repeated dose toxicity

; Sodium carbonate dissociates into ions that are physiologically present in relatively high levels in vertebrates. Therefore, there is repetition toxicity studies considered (scientifically) unnecessary, in accordance with column 2 of REACH Annexes VIII and IX (ANNEX).

Inhalation hazard

Does not apply

11.2. Information on additional hazards

Data for the product

Endocrine-disrupting properties

Evaluation : No information is available on the characteristics of the breach

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endocrine system for human health.

SECTION 12: Ecological information

12.1. Toxicity

Folder:	sodium carbonate	CAS No. 497-19-8
Acute toxicity		
Fish		
LC50	: 300 mg/l (Lepomis macrochirus (Sunflower fish), mortality rate; 96 h) (static test)	
Toxicity to daphnia and other aquatic invertebrates		
EC50	: 200 - 227 mg/l (Ceriodaphnia dubia (seaweed), Immobilization; 48 h) (semi-static test)	
water flower		
	: Studies not scientifically justified.	
Bacteria		
	: Studies not scientifically justified.	

12.2. Persistence and degradability

Folder:	sodium carbonate	CAS No. 497-19-8
Persistence and degradability		
Persistence		
Result	: Decomposition by hydrolysis.	
Biodegradability		
Result	: Biodegradability determination methods are not applicable for inorganic substances.	

12.3. Bioaccumulative potential

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Bioaccumulation

Result : Bioaccumulation is not likely.

12.4. Mobility in soil

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Mobility

Water : The product is soluble in water.
Air : Non-volatile

12.5. Results of PBT and vPvB assessment

Data for the product

Results of PBT and vPvB assessment

Result : The substance/mixture does not contain components considered to be either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at a concentration of 0.1% or higher.

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Results of PBT and vPvB assessment

Result : PBT or vPvB in Annex XIII of REACH does not apply to inorganic substances.

12.6. Endocrine-disrupting properties

Data for the product

Potential for endocrine disruption : No information is available on endocrine disrupting properties for the environment.

12.7. Other adverse effects

Data for the product

Additional ecological information

Result : Do not allow to enter surface waters or drains.
Prevent subsoil penetration.

Result :

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Additional ecological information

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Result : Do not allow to enter surface waters or drains.
Prevent subsoil penetration.

SECTION 13: Disposal considerations

13.1. Waste management methods

Product	: Disposal together with ordinary waste is not allowed. It is special disposal method required in accordance with local regulations. Do not allow to enter drains. Contact a waste disposal service. This product must be disposed of or regenerated in accordance with Directive 2008/98/EC on waste as amended.
Contaminated packaging	: Handle contaminated packaging professionally. Packaging can be recycled after thorough and careful cleaning. If recycling is not possible, dispose of in accordance with local regulations.
Number from the European waste catalog	: This product cannot be assigned any code from the European Waste Catalog because its assignment is determined by the intended use. The waste code was established in consultation with the local authorities responsible for waste disposal.

SECTION 14: Transport information

Not dangerous goods in terms of transport: ADR, RID, IMDG and IATA.

14.1. UN number or ID number

not applicable

14.2. Official (UN) shipping name

not applicable

14.3. Transport hazard class(es).

not applicable

14.4. Packaging group

not applicable

14.5. Danger to the environment

not applicable

14.6. Special safety measures for users

not applicable

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14.7 Maritime bulk transport according to IMO instruments

It does not apply to this product as it is delivered.

SECTION 15: Regulatory Information

15.1. Safety, Health and Environmental Regulations/ Specific Legislation relating to a substance or mixture

Data for the product

Other regulations

: The product is labeled according to EU or applicable directives national regulations. All the mentioned laws should be considered with regard to later changes in the valid wording. 350/2011 LAW of 27 October 2011 on chemical substances and chemical mixtures and on the amendment of certain laws (chemical law) with effect from 1 January 2012 Directive (EC) No. 1272/2008 on classification, labeling and packaging of substances and mixtures, on amending and repealing Directives 67/548/EEC and 1999/45/EC and amending Regulation (EC) No. 1907/2006, as amended. 1) Council Directive 67/548/EEC on the approximation of legal and administrative regulations relating to the classification, packaging and labeling of dangerous substances, as amended. Regulation of the European Parliament and the Council (EC) No. 1907/2006 of 18 December 2006 on registration, evaluation, authorization and restriction of chemical substances, on the establishment of the European Chemicals Agency, on the amendment of Directive 1999/45/EC and on the repeal of Council Regulation (EEC) No. 793/93, Commission Regulation (EC) No. 1488/94, Directive Council 76/796/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation of the European Parliament and of the Council (EC) No. 689/2008 of 17 June 2008 on the export and import of hazardous chemical substances.

Regulation of the European Parliament and of the Council (EC) No. 648/2004 of March 31, 2004 on detergents, as amended.

European Parliament and Council Regulation (EC) No. 850/2004 of April 29, 2004 on persistent organic

pollutants and amending Directive 79/117/EEC, as amended. Regulation of the European Parliament and of the Council (EC) No. 1272/2008 of 16 December 2008 on the classification, labeling and packaging of substances and mixtures, on the amendment and repeal of Directives 67/548/EEC and 1999/45/EC and on the amendment of the Regulation (EC) No.

1907/2006, as amended. Commission Regulation (EC) No. 440/2008 of 30 May 2008 laying down test methods pursuant to Regulation (EC) No. 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemical Substances, as amended. Commission Regulation (EC) No. 340/2008 of 16 April 2008 on fees and payments to the European Chemicals Agency pursuant to Regulation (EC) No. 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH). Art. 2 paragraph 7 of the Regulation of the European Parliament and the Council (EC) no.

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1272/2008 of 16 December 2008 on the classification, labeling and packaging of substances and mixtures, on the amendment and repeal of Directives 67/548/EEC and 1999/45/EC and on the amendment of Regulation (EC) No. 1907/2006, as amended . 4) Art. 2 paragraph 8 of Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16 December 2008 on the classification, labeling and packaging of substances and mixtures, on the amendment and repeal of Directives 67/548/EEC and 1999/45/EC and amending Regulation (EC) No. 1907/2006, as amended. Commission Regulation (EC) No. 440/2008 of 30 May 2008 laying down test methods pursuant to Regulation (EC) No. 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemical Substances, as amended . Law no. 111/1994 Coll., on road transport, as amended, European Agreement on the International Carriage of Dangerous Goods by Road (ADR), promulgated under No. 64/1987 Coll., as amended. Act No. 114/1995 Coll., on inland navigation, as amended. Decree No. 17/1966 Coll., on air transport regulations, as amended by Decree No. 15/1971 Coll. Act No. 61/2000 Coll., on maritime navigation.

Government Regulation No. 361/2007 Coll., which establishes conditions for health protection at work, as amended by Government Regulation No. 68/2010 Coll. Art. 31 Regulation of the European Parliament and Council (EC) No. 1907/2006 of 18 December 2006 on the registration, evaluation, authorization and restriction of chemical substances, on the establishment of the European Agency for Chemical Substances, on the amendment of Directive 1999/45/EC and on the repeal of the Regulation Council (EEC) No. 793/93, Commission Regulation (EC) No. 1488/94, Council Directive 76/769/EEC and Directives Commission 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, in valid wording. Art. 9 paragraph 3 and Annex VII of the European Regulation of the Parliament and the Council (EC) no. 648/2004 of March 31, 2004 on detergents, in force wording. Regulation of the European Parliament and the Council (EC) no. 850/2004 of April 29, 2004 on persistent organic polluting substances and the amendment of Directive 79/117/EEC, v valid wording.

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EU. EU Regulation No. 649/2012 on the export and import of hazardous chemical substances : ; The substance/mixture is not subject to these regulations.

EU. REACH, Annex XVII, Marketing and Use Restrictions (Regulation 1907/2006/EC) : ; The substance/mixture is not subject to these regulations.

EU. Directive no. 1451/2007 [Biocides], Annex I, OJ (L 325) : EC number , 207-838-8; Listed

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EPR Directive : ; The substance/mixture is not subject to these regulations.
2012/18/EU (SEVESO
III) Annex I

Permissible limits : Hazard designation (HAZ-DES) ; Irritating to skin / mucous membranes.
and concentrations of
chemical substances in workplace air

Notification statute

sodium carbonate:

Regulatory List	Notification	Notification number
AICS	YES	
DSL	YES	
EINECS	YES	207-838-8
ENCS (JP)	YES	(1)-164
IECSC	YES	
INSQ	YES	
ISHL (JP)	YES	(1)-164
CRAP (KR)	YES	KE-31380
NZIOC	YES	HSR003265
ONT INV	YES	
PHARM (JP)	YES	
PICCS (PH)	YES	
TCSI	YES	
TH INV	YES	2836.20
TH INV	YES	55-1-03923
TSCA	YES	
VN INVL	YES	

15.2. Chemical safety assessment

Data not available

SECTION 16: Further information

Full text of the H-statements given in sections 2 and 3.

H319 Causes serious eye irritation.

The full text of the notes listed in Section 3.

Abbreviations and acronyms

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AU AIICL	Australia. Industrial Chemicals Act (AIIC) Sheet
BCF	bioconcentration factor
BOD	biochemical oxygen consumption
TIME	Chemical Abstracts Service
CLP	classification, labeling and packaging
CMR	carcinogenic, mutagenic or toxic for reproduction chemical oxygen
COD	demand derived level at which
TODAY	no adverse effects occur Canada. Environmental Protection Act, Domestic
DSL	Substances List European List of Existing Traded Chemical Substances European
EINECS	List of Notified Chemical Substances Japan. Kashin-Hou Law List Globally
ELINCS	Harmonized System of Classification and Labeling of
ENCS (JP)	Chemical Substances China.
GHS	Inventory of Existing Chemical Substances Mexico. National Inventory of Chemical
IECSC	Substances Japan. Inventory of Industrial Safety & Health
INSQ	Korea. Existing Chemicals Inventory
ISHL (JP)	
CRAP (KR)	
LC50	medium lethal concentration
LOAEC	lowest concentration with observed adverse effect lowest dose with
LOAEL	observed adverse effect lowest dose with observed effect
LOL	Canada. Environmental Protection Act. Non-
NDSL	Domestic Substances List
NLP	substance no longer considered a polymer concentration
NOAEC	no observed adverse effect dose value no observed adverse
NOAEL	effect concentration no observed effect dose value New Zealand.
NOEC	Inventory of Chemicals Organization for
CHRISTMAS	Economic Co-operation and Development
NZIOC	workplace exposure limit value Canada.
OECD	Ontario Inventory List persistent, bioaccumulative and toxic
OEL	
ONT INV	
PBT	
PHARM (JP)	Japan. Pharmacopoeia Listing
PICCS (PH)	Philippines. Inventory of Chemicals and Chemical Substances estimate of
PNEC	the concentration at which no adverse effects occur
REACH Auth. Well	REACH authorization number
REACH AuthAppC. Well	REACH consultation number of the authorization application
STOT	specific target organ toxicity substance of
SVHC	very high concern

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TCSI	Taiwan. Existing Chemicals Inventory Thailand.
TH INV	Existing Chemicals Inventory from FDA US. Toxic Substances
TSCA	Control Act
UVCB	substance of unknown or variable composition, complex reaction product or biological material Vietnam. National
VN INVL	Chemical Inventory highly persistent and
vPvB	highly bioaccumulative

More information

Important literature references and data sources : Supplier information and data from the "Database of Registered Substances" of the European Chemicals Agency (ECHA) were used to create this safety data sheet.

Methods used for product classification. : Classifications for human health, physical and chemical hazards and environmental hazards have been derived using a combination of calculation methods and possible, available test data.

Training Guidelines : Workers must be regularly trained on safe handling the products based on the information provided in the safety data sheet and local conditions at the workplace. National regulations for the training of workers in the handling of hazardous substances must be observed.

More information : The information contained in this safety data sheet is to the best of our knowledge at the time the revision was made. The information only describes the product with regard to handling safety, it is not a quality specification, it does not establish the law. The information contained in this safety data sheet applies only to this material and may not be valid for this material used in combination with another material or in another process not described in the text.

|| The section has been redesigned.