

*SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006*

## **CALCIUM CHLORIDE 34% (E509) FOOD**

Version 3.0

Print Date 10.03.2023

Revision date / valid from 08.03.2023

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

#### **1.1. Product identifier**

Trade name : CALCIUM CHLORIDE 34% (E509) FOOD

UFI : TNQ3-30E7-E00F-3PS7

UFI code notified in : Belgium, Germany, Denmark, Estonia, Spain, France, Croatia, Ireland, Iceland, Lithuania, Latvia, Malta, Netherlands, Norway, Portugal, Sweden

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

Use of the Substance/Mixture : Identified use: See table in front of appendix for a complete overview of identified uses.

Uses advised against : At this moment we have not identified any uses advised against

Remarks : Before referring to any Exposure Scenario attached to this Safety Data Sheet please check the grade of the product: the Exposure Scenarios presented are not related to all product grade

#### **1.3. Details of the supplier of the safety data sheet**

Company : Brenntag N.V.  
Nijverheidslaan 38  
BE 8540 Deerlijk

Telephone : +32 (0)56 77 6944

Telefax : +32 (0)56 77 5711

E-mail address : info@brenntag.be

Responsible/issuing person : Master Data Administration

Company : Brenntag Nederland B.V.  
Donker Duyvisweg 44  
NL 3316 BM Dordrecht

Telephone : +31 (0)78 65 44 944

Telefax : +31 (0)78 65 44 919

E-mail address : info@brenntag.nl

Responsible/issuing person : Master Data Administration

#### **1.4. Emergency telephone number**

Emergency telephone number : Belgium: Antipoison Center - Brussels TEL: +32(0)70 245 245

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Netherland: National Poisoning Information Center - Bilthoven  
 TEL: +31(0) 88 755 8000 (Only for the purpose of informing  
 medical personnel in cases of acute intoxications)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

REGULATION (EC) No 1272/2008			
Hazard class	Hazard category	Target Organs	Hazard statements
Eye irritation	Category 2	---	H319


For the full text of the H-Statements mentioned in this Section, see Section 16.

##### Most important adverse effects

Human Health : See section 11 for toxicological information.  
 Physical and chemical hazards : See section 9/10 for physicochemical information.  
 Potential environmental effects : See section 12 for environmental information.

#### 2.2. Label elements

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

Hazard symbols : 

Signal word : Warning

Hazard statements : H319 Causes serious eye irritation.

Precautionary statements

Prevention : P264 Wash skin thoroughly after handling.  
 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/

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attention.

### Hazardous components which must be listed on the label:

|| • calcium chloride

### 2.3. Other hazards

The PBT or vPvB criteria of Annex XIII to the REACH Regulation does not apply to inorganic substances.

|| Ecological information: No information available about endocrine disruption properties for environment.

|| Toxicological information: No information available about endocrine disruption properties for human health.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

Chemical nature : Aqueous solution

Hazardous components	Amount [%]	Classification (REGULATION (EC) No 1272/2008)	
		Hazard class / Hazard category	Hazard statements
<b>calcium chloride</b>			
Index-No. : 017-013-00-2	>= 25 - <= 45	Eye Irrit.2	H319
CAS-No. : 10043-52-4			
EC-No. : 233-140-8			
EU REACH- : 01-2119494219-28-xxxx			
Reg. No.			

For the full text of the H-Statements mentioned in this Section, see Section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

General advice : Take off all contaminated clothing immediately. If symptoms call a physician.

If inhaled : Remove to fresh air. If symptoms persist, call a physician.

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In case of skin contact	: Wash off immediately with soap and plenty of water. If skin irritation persists, call a physician.
In case of eye contact	: Rinse immediately with plenty of water, also under the eyelids, for at least 5 minutes. Consult an eye specialist immediately. Go to an ophthalmic hospital if possible.
If swallowed	: Rinse mouth with water. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.
Protection of First Aid Responders	: First Aid responders should pay attention to self-protection and use the recommended protective clothing.

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

Symptoms	: See Section 11 for more detailed information on health effects and symptoms.
Effects	: irritant effects

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

Treatment	: Treat symptomatically.
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## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

Suitable extinguishing media	: The product itself does not burn. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	: High volume water jet

### **5.2. Special hazards arising from the substance or mixture**

Specific hazards during firefighting	: Fire may cause evolution of: Irritant gases/vapours
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### **5.3. Advice for firefighters**

Special protective equipment for firefighters	: In the event of fire, wear self-contained breathing apparatus. Wear personal protective equipment.
Further advice	: Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Cool closed containers exposed to fire with water spray.

## **SECTION 6: Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

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Personal precautions : Use personal protective equipment. Keep away unprotected persons. Ensure adequate ventilation. Avoid contact with skin and eyes.

### **6.2. Environmental precautions**

Environmental precautions : Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.

### **6.3. Methods and materials for containment and cleaning up**

Methods and materials for containment and cleaning up : Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders). Keep in suitable, closed containers for disposal.

Further information : Treat recovered material as described in the section "Disposal considerations".

### **6.4. Reference to other sections**

See Section 1 for emergency contact information.  
See Section 8 for information on personal protective equipment.  
See Section 13 for waste treatment information.

## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

Advice on safe handling : Keep container tightly closed. Use personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Emergency eye wash fountains and emergency showers should be available in the immediate vicinity.

Hygiene measures : Keep away from food, drink and animal feedingstuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of workday. Take off all contaminated clothing immediately.

### **7.2. Conditions for safe storage, including any incompatibilities**

Requirements for storage areas and containers : Store in original container. Suitable materials for containers: Polypropylene; polyethylene; Unsuitable materials for containers: Aluminium

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Further information on storage conditions : Keep tightly closed in a dry and cool place.

### **7.3. Specific end use(s)**

Specific use(s) : Identified use: See table in front of appendix for a complete overview of identified uses.

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Other Occupational Exposure Limit Values

(Additional) Information : Contains no substances with occupational exposure limit values.  
 Contains no substances with occupational exposure limit values.

<b>Component:</b>	<b>calcium chloride</b>	<b>CAS-No. 10043-52-4</b>
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##### Derived No Effect Level (DNEL)/Derived Minimal Effect Level (DMEL)

DNEL	Workers, Acute - local effects, Inhalation	: 10 mg/m3
DNEL	Workers, Long-term - local effects, Inhalation	: 5 mg/m3
DNEL	Consumers, Acute - local effects, Inhalation	: 5 mg/m3
DNEL	Consumers, Long-term - local effects, Inhalation	: 2,5 mg/m3

<b>Component:</b>	<b>calcium chloride</b>	<b>CAS-No. 10043-52-4</b>
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##### Predicted No Effect Concentration (PNEC)

No PNEC value was derived. :

#### 8.2. Exposure controls

##### Appropriate engineering controls

Refer to protective measures listed in sections 7 and 8.

##### Personal protective equipment

###### *Respiratory protection*

Advice : Required, if exposure limit is exceeded (e.g. OEL).  
 Respiratory protection complying with EN 141.

###### *Hand protection*

Advice : Protective gloves complying with EN 374.  
 Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves.  
 Also take into consideration the specific local conditions under

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which the product is used, such as the danger of cuts, abrasion, and the contact time.

Protective gloves should be replaced at first signs of wear.

Material : Natural Rubber  
Break through time :  $\geq 480$  min  
Glove thickness : 0,5 mm

Material : polychloroprene  
Break through time :  $\geq 480$  min  
Glove thickness : 0,5 mm

Material : Nitrile rubber  
Break through time :  $\geq 480$  min  
Glove thickness : 0,35 mm

Material : butyl-rubber  
Break through time :  $\geq 480$  min  
Glove thickness : 0,5 mm

Material : Fluorinated rubber  
Break through time :  $\geq 480$  min  
Glove thickness : 0,4 mm

Material : Polyvinylchloride  
Break through time :  $\geq 480$  min  
Glove thickness : 0,5 mm

### *Eye protection*

Advice : Safety goggles

### *Skin and body protection*

Advice : Wear personal protective equipment.

### **Environmental exposure controls**

General advice : Do not flush into surface water or sanitary sewer system.  
Avoid subsoil penetration.

## **SECTION 9: Physical and chemical properties**

### **9.1 Information on basic physical and chemical properties**

Form : liquid

Physical state : liquid

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Colour	:	colourless
Odour	:	odourless
Odour Threshold	:	Not applicable
Melting point/range	:	ca. -46 °C 18 - 42% solution
Boiling point/boiling range	:	ca. 100 - 120 °C 18 - 42% solution
Flammability (solid, gas)	:	Not applicable Remarks: does not sustain combustion.
Upper explosion limit / Upper flammability limit	:	Not applicable
Lower explosion limit / Lower flammability limit	:	Not applicable
Flash point	:	Not applicable
Auto-ignition temperature	:	Not applicable
Decomposition temperature	:	> 772 °C
Self-Accelerating decomposition temperature (SADT)	:	No data available
pH	:	10 - 11 (20 °C) Concentration: 100 % (formulated product)
Viscosity		
Viscosity, dynamic	:	ca. 2 - 10 mPa.s 18 - 42% solution
Viscosity, kinematic	:	No data available
Flow time	:	No data available
Solubility(ies)		
Water solubility	:	completely soluble
Solubility in other solvents	:	No data available
Dissolution Rate	:	No data available
Partition coefficient: n-octanol/water	:	Not applicable
Dispersion Stability	:	No data available



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Vapour pressure	:	Not applicable
Relative density	:	No data available
Density	:	1,4 g/cm <sup>3</sup> solution 40%
Bulk density	:	No data available
Relative vapour density	:	No data available
Particle characteristics		No data available

**9.2 Other information**

Explosives	:	Product is not explosive.
Flammability (liquids)	:	Not applicable Remarks: does not sustain combustion.

**SECTION 10: Stability and reactivity****10.1. Reactivity**

Advice : No decomposition if stored and applied as directed.

**10.2. Chemical stability**

Advice : Stable under recommended storage conditions.

**10.3. Possibility of hazardous reactions**

Hazardous reactions : No dangerous reaction known under conditions of normal use.

**10.4. Conditions to avoid**

Conditions to avoid : Exposure to moisture  
Thermal decomposition : > 772 °C  
Product is hygroscopic.

**10.5. Incompatible materials**

Materials to avoid : Strong reducing agents, Strong oxidizing agents

**10.6. Hazardous decomposition products**

Hazardous decomposition products : Fire may cause evolution of: Irritant gases/vapours

**SECTION 11: Toxicological information****11.1. Information on the hazard classes within the meaning of Regulation (EC) No. 1272/2008**

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### **Data for the product**

#### **Acute toxicity**

##### **Oral**

Please find this information in the listing of the component/components below in this section.

##### **Inhalation**

Please find this information in the listing of the component/components below in this section.

##### **Dermal**

Please find this information in the listing of the component/components below in this section.

#### **Irritation**

##### **Skin**

Result : Please find this information in the listing of the component/components below in this section.

##### **Eyes**

Result : Please find this information in the listing of the component/components below in this section.

#### **Sensitisation**

Result : Please find this information in the listing of the component/components below in this section.

#### **CMR effects**

##### **CMR Properties**

Carcinogenicity : Please find this information in the listing of the component/components below in this section.

Mutagenicity : Please find this information in the listing of the component/components below in this section.

Teratogenicity : Please find this information in the listing of the component/components below in this section.

Reproductive toxicity : Please find this information in the listing of the component/components below in this section.

##### **Carcinogenicity**

Please find this information in the listing of the component/components below in this section.

##### **Teratogenicity**

Please find this information in the listing of the component/components below in this section.

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**Specific Target Organ Toxicity**

**Single exposure**

Remarks : Please find this information in the listing of the component/components below in this section.

**Repeated exposure**

Remarks : Please find this information in the listing of the component/components below in this section.

**Other toxic properties**

**Repeated dose toxicity**

; Please find this information in the listing of the component/components below in this section.

**Aspiration hazard**

No data available

**Component:** calcium chloride CAS-No. 10043-52-4

**Acute toxicity**

**Oral**

LD50 : 2120 mg/kg body weight(Rat, male and female) (OECD Test Guideline 401)

**Inhalation**

No data available

**Dermal**

LD50 : > 5000 mg/kg body weight(Rabbit, male and female)

**Irritation**

**Skin**

Result : No skin irritation (Rabbit) (OECD Test Guideline 404)

**Eyes**

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

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### Sensitisation

Result : Study scientifically not justified.

### CMR effects

#### Carcinogenicity

It dissociates into ions that are present physiologically in relatively high levels in vertebrates. Therefore, a study is considered (scientifically) unnecessary.

#### CMR Properties

Carcinogenicity : Study scientifically not justified.  
Mutagenicity : In vitro tests did not show mutagenic effects  
Teratogenicity : Did not show teratogenic effects in animal experiments.  
Reproductive toxicity : Study scientifically not justified.

#### Teratogenicity

NOAEL : 169 mg/kg  
Maternal (Rabbit)(OECD Test Guideline 414)

### Specific Target Organ Toxicity

#### Single exposure

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

#### Repeated exposure

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

### Other toxic properties

#### Repeated dose toxicity

; It dissociates into ions that are present physiologically in relatively high levels in vertebrates. Therefore, a study is considered (scientifically) unnecessary.

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### Aspiration hazard

Not applicable,

### 11.2. Information on other hazards

#### Data for the product

#### Endocrine disrupting properties

Assessment : No information available about endocrine disruption properties for human health.

Component: calcium chloride CAS-No. 10043-52-4

#### Endocrine disrupting properties

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 12: Ecological information

### 12.1. Toxicity

Component: calcium chloride CAS-No. 10043-52-4

#### Acute toxicity

#### Fish

LC50 : 4.630 mg/l (Pimephales promelas (fathead minnow); 96 h) (static test; EPA 600/4-90/027)

#### Toxicity to daphnia and other aquatic invertebrates

NOEC : 2.000 mg/l (Daphnia magna; 48 h) (static test; OECD Test Guideline 202)

LC50 : 2.400 mg/l (Daphnia magna; 48 h) (static test; OECD Test Guideline 202)

#### algae

EC50 : 2900 mg/l (Pseudokirchneriella subcapitata (green algae); 72 h) (OECD Test Guideline 201)

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### Bacteria

: Study scientifically unjustified.

### 12.2. Persistence and degradability

<b>Component:</b>	<b>calcium chloride</b>	<b>CAS-No. 10043-52-4</b>
<b>Persistence and degradability</b>		

#### Persistence

Result : (Related to: Water) decomposition by hydrolysis.

#### Biodegradability

Result : The methods for determining the biological degradability are not applicable to inorganic substances.

### 12.3. Bioaccumulative potential

<b>Component:</b>	<b>calcium chloride</b>	<b>CAS-No. 10043-52-4</b>
<b>Bioaccumulation</b>		

Result : Bioaccumulation is not expected.

### 12.4. Mobility in soil

<b>Component:</b>	<b>calcium chloride</b>	<b>CAS-No. 10043-52-4</b>
<b>Mobility</b>		

Water : The product is water soluble.

### 12.5. Results of PBT and vPvB assessment

<b>Data for the product</b>		
<b>Results of PBT and vPvB assessment</b>		

Result : The PBT or vPvB criteria of Annex XIII to the REACH Regulation does not apply to inorganic substances.

<b>Component:</b>	<b>calcium chloride</b>	<b>CAS-No. 10043-52-4</b>
<b>Results of PBT and vPvB assessment</b>		

Result : The PBT or vPvB criteria of Annex XIII to the REACH Regulation does not apply to inorganic substances.

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### 12.6. Endocrine disrupting properties

#### Data for the product

Endocrine disrupting potential : No information available about endocrine disruption properties for environment.

#### Component: calcium chloride CAS-No. 10043-52-4

Endocrine disrupting potential : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### 12.7. Other adverse effects

#### Data for the product

##### Additional ecological information

Result : Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.

#### Component: calcium chloride CAS-No. 10043-52-4

##### Additional ecological information

Result : Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

- Product : Disposal together with normal waste is not allowed. Special disposal required according to local regulations. Do not let product enter drains. Contact waste disposal services. This product shall be disposed of or recovered in compliance with Directive 2008/98/EC on waste as lastly amended.
- Contaminated packaging : Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning. If recycling is not practicable, dispose of in compliance with local regulations.
- European Waste Catalogue Number : No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation with the regional waste disposer.

## SECTION 14: Transport information

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Not dangerous goods for ADR, RID, IMDG and IATA.

**14.1. UN number or ID number**

Not applicable.

**14.2. UN proper shipping name**

Not applicable.

**14.3. Transport hazard class(es)**

Not applicable.

**14.4. Packaging group**

Not applicable.

**14.5. Environmental hazards**

Not applicable.

**14.6. Special precautions for user**

Not applicable.

**14.7 Maritime transport in bulk according to IMO instruments**

Not applicable for product as supplied.

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Data for the product**

EU. Regulation EC No. : ; The substance/mixture does not fall under this legislation.  
689/2008

EU. REACH, Annex XVII, : Point Nos.: , 3; Listed  
Marketing and Use  
Restrictions (Regulation  
1907/2006/EC)

EU. Directive : ; The substance/mixture does not fall under this legislation.  
2012/18/EU (SEVESO  
III) on major accident  
hazards involving  
dangerous substances,  
Annex I



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<b>Component:</b>	<b>calcium chloride</b>	<b>CAS-No. 10043-52-4</b>
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EU. Chemicals Subject to PIC Procedure: Regulation 649/2012/EU on export and import of dangerous chemicals, as amended : ; The substance/mixture does not fall under this legislation.

EU. REACH, Annex XVII, Marketing and Use Restrictions (Regulation 1907/2006/EC) : Point Nos.: , 75; Listed.

EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex I : ; The substance/mixture does not fall under this legislation.

### Notification status calcium chloride:

Regulatory List	Notification	Notification number
AICS	YES	
DSL	YES	
EINECS	YES	233-140-8
ENCS (JP)	YES	(1)-176
IECSC	YES	
INSQ	YES	
ISHL (JP)	YES	(1)-176
KECI (KR)	YES	KE-04496
NZIOC	YES	HSR003389
ONT INV	YES	
PHARM (JP)	YES	
PICCS (PH)	YES	
TCSI	YES	
TH INV	YES	2827.20
TH INV	YES	55-1-00071
TSCA	YES	
VN INVL	YES	

### 15.2. Chemical safety assessment

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

### SECTION 16: Other information

## **CALCIUM CHLORIDE 34% (E509) FOOD**

### **Full text of H-Statements referred to under sections 2 and 3.**

H319 Causes serious eye irritation.

### **Full text of the Notes referred to under section 3.**

### **Abbreviations and Acronyms**

<b>AU AIICL</b>	Australia. Industrial Chemicals Act (AIIC) List
<b>BCF</b>	bioconcentration factor
<b>BOD</b>	biochemical oxygen demand
<b>CAS</b>	Chemical Abstracts Service
<b>CLP</b>	Classification, Labelling and Packaging
<b>CMR</b>	carcinogenic, mutagenic or toxic to reproduction
<b>COD</b>	chemical oxygen demand
<b>DNEL</b>	derived no-effect level
<b>DSL</b>	Canada. Environmental Protection Act, Domestic Substances List
<b>EINECS</b>	European Inventory of Existing Commercial Chemical Substances
<b>ELINCS</b>	European List of Notified Chemical Substances
<b>ENCS (JP)</b>	Japan. Kashin-Hou Law List
<b>GHS</b>	Globally Harmonized System of Classification and Labelling of Chemicals
<b>IECSC</b>	China. Inventory of Existing Chemical Substances
<b>INSQ</b>	Mexico. National Inventory of Chemical Substances
<b>ISHL (JP)</b>	Japan. Inventory of Industrial Safety & Health
<b>KECI (KR)</b>	Korea. Existing Chemicals Inventory
<b>LC50</b>	median lethal concentration
<b>LOAEC</b>	lowest observed adverse effect concentration
<b>LOAEL</b>	lowest observed adverse effect level
<b>LOEL</b>	lowest observed effect level
<b>NDSL</b>	Canada. Environmental Protection Act. Non-Domestic Substances List
<b>NLP</b>	no-longer polymer
<b>NOAEC</b>	no observed adverse effect concentration
<b>NOAEL</b>	no observed adverse effect level
<b>NOEC</b>	no observed effect concentration
<b>NOEL</b>	no observed effect level
<b>NZIOC</b>	New Zealand. Inventory of Chemicals
<b>OECD</b>	Organisation for Economic Cooperation and Development
<b>OEL</b>	occupational exposure limit
<b>ONT INV</b>	Canada. Ontario Inventory List

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<b>PBT</b>	persistent, bioaccumulative and toxic
<b>PHARM (JP)</b>	Japan. Pharmacopoeia Listing
<b>PICCS (PH)</b>	Philippines. Inventory of Chemicals and Chemical Substances
<b>PNEC</b>	predicted no-effect concentration
<b>REACH Auth. No.:</b>	REACH Authorisation Number
<b>REACH AuthAppC. No.</b>	REACH Authorisation Application Consultation Number
<b>STOT</b>	specific target organ toxicity
<b>SVHC</b>	substance of very high concern
<b>TCSI</b>	Taiwan. Existing Chemicals Inventory
<b>TH INV</b>	Thailand. Existing Chemicals Inventory from FDA
<b>TSCA</b>	US. Toxic Substances Control Act
<b>UVCB</b>	substance of unknown or variable composition, complex reaction products or biological materials
<b>VN INV L</b>	Vietnam. National Chemical Inventory
<b>vPvB</b>	very persistent and very bioaccumulative

### Further information

Key literature references and sources for data : 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 : The classification for human health, physical and chemical hazards and environmental hazards were derived from a combination of calculation methods and if available test data.

Hints for trainings : The workers have to be trained regularly on the safe handling of the products based on the information provided in the Safety Data Sheet and the local conditions of the workplace. National regulations for the training of workers in the handling of hazardous materials must be adhered to.

Other information : The information provided in this Safety Data Sheet is correct to our knowledge at the date of its revision. The information given only describes the products with regard to safety arrangements and is not to be considered as a warranty or quality specification and does not constitute a legal relationship.  
The information contained in this Safety Data Sheet relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

|| Indicates updated section.