

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

Champion Chlorine Shock Granules

Version 1.0

Print Date 2022/05/09

Revision date / valid from 2022/05/09

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

1.1. Product identifier

Trade name : Champion Chlorine Shock Granules
 Substance name : calcium hypochlorite

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

Use of the Substance/Mixture : disinfectant, Detergent
 Uses advised against : At this moment we have not identified any uses advised against

1.3. Details of the supplier of the safety data sheet

Company : Brenntag UK Limited
 Alpha House, Lawnswood Business Park
 GB LS16 6QY Leeds
 Telephone : +44 (0) 113 3879 200
 Telefax : +44 (0) 113 3879 280
 E-mail address : msds@brenntag.co.uk

1.4. Emergency telephone number

Emergency telephone number : Emergency only telephone number (open 24 hours):
 +44 (0) 1865 407333 (N.C.E.C. Culham)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation S.I. 2019/720 (GB CLP)

Regulation S.I. 2019/720 (GB CLP)			
Hazard class	Hazard category	Target Organs	Hazard statements
Oxidizing solids	Category 2	---	H272
Acute toxicity (Oral)	Category 4	---	H302
Skin corrosion	Sub-category 1B	---	H314
Short-term (acute) aquatic hazard	Category 1	---	H400

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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 S.I. 2019/720 (GB CLP)

Hazard symbols	:											
Signal word	:	Danger										
Hazard statements	:	<table> <tr> <td>H272</td> <td>May intensify fire; oxidizer.</td> </tr> <tr> <td>H302</td> <td>Harmful if swallowed.</td> </tr> <tr> <td>H314</td> <td>Causes severe skin burns and eye damage.</td> </tr> <tr> <td>H400</td> <td>Very toxic to aquatic life.</td> </tr> </table>	H272	May intensify fire; oxidizer.	H302	Harmful if swallowed.	H314	Causes severe skin burns and eye damage.	H400	Very toxic to aquatic life.		
H272	May intensify fire; oxidizer.											
H302	Harmful if swallowed.											
H314	Causes severe skin burns and eye damage.											
H400	Very toxic to aquatic life.											
Precautionary statements												
Prevention	:	<table> <tr> <td>P210</td> <td>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</td> </tr> <tr> <td>P220</td> <td>Keep away from clothing and other combustible materials.</td> </tr> <tr> <td>P260</td> <td>Do not breathe dust.</td> </tr> <tr> <td>P273</td> <td>Avoid release to the environment.</td> </tr> <tr> <td>P280</td> <td>Wear protective gloves/ protective clothing/ eye protection/ face protection.</td> </tr> </table>	P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.	P220	Keep away from clothing and other combustible materials.	P260	Do not breathe dust.	P273	Avoid release to the environment.	P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.											
P220	Keep away from clothing and other combustible materials.											
P260	Do not breathe dust.											
P273	Avoid release to the environment.											
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.											
Response	:	<table> <tr> <td>P301 + P330 + P331 + P310</td> <td>IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/ doctor.</td> </tr> <tr> <td>P303 + P361 + P353</td> <td>IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.</td> </tr> <tr> <td>P304 + P340 + P310</td> <td>IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.</td> </tr> <tr> <td>P305 + P351 + P338</td> <td>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact</td> </tr> </table>	P301 + P330 + P331 + P310	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/ doctor.	P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.	P304 + P340 + P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.	P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact		
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P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact											

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	P370 + P378	lenses, if present and easy to do. Continue rinsing.
	P391	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish. Collect spillage.
Disposal	: P501	Dispose of contents/ container in accordance with the local regulations.

Additional Labelling:

EUH031 Contact with acids liberates toxic gas.

Hazardous components which must be listed on the label:

- calcium hypochlorite

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.

Ecological information: 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.

Toxicological information: 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 3: Composition/information on ingredients

3.1. Substances

Hazardous components	Amount [%]	Classification (Regulation S.I. 2019/720 (GB CLP))	
		Hazard class / Hazard category	Hazard statements
calcium hypochlorite			
Index-No. : 017-012-00-7	>= 90 - <= 100	Ox. Sol.2	H272
CAS-No. : 7778-54-3		Acute Tox.4 Oral	H302
EC-No. : 231-908-7		Skin Corr.1B	H314
		Aquatic Acute1	H400
		<u>M-Factor (Acute aquatic toxicity): 10</u> specific concentration limit Eye Irrit. 2; H319 0.5 - < 3 % Skin Irrit. 2; H315 1 - < 5 %	

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Eye Dam. 1; H318
3 - < 5 %
Skin Corr. 1B; H314
>= 5 %

Note T

For the full text of the H-Statements mentioned in this Section, see Section 16.
For the full text of the Notes 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 inhaled	: In case of accident by inhalation: remove casualty to fresh air and keep at rest. If breathing is irregular or stopped, administer artificial respiration. Call a physician immediately.
In case of skin contact	: Wash off immediately with soap and plenty of water. Call a physician immediately. Remove contaminated clothing and shoes.
In case of eye contact	: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult an eye specialist immediately. Go to an ophthalmic hospital if possible.
If swallowed	: Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician immediately.

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	: Extremely corrosive and destructive to tissue. If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach. See Section 11 for more detailed information on health effects and symptoms.

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**

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- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water, Water mist
- Unsuitable extinguishing media : High volume water jet, Do not use chemical powder type extinguishing agents that contain ammonia compounds. Carbon dioxide (CO₂), Halons

5.2. Special hazards arising from the substance or mixture

- Specific hazards during firefighting : Incomplete combustion may form toxic pyrolysis products.
- Hazardous combustion products : Carbon monoxide, Carbon dioxide (CO₂), The formation of caustic fumes is possible.

5.3. Advice for firefighters

- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus. Wear appropriate body protection (full protective suit)
- Specific extinguishing methods : Control smoke with water spray.
- Further advice : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- Personal precautions : Keep away unprotected persons. Use personal protective equipment. Ensure adequate ventilation. Avoid contact with the skin and the eyes. Do not breathe vapours or spray mist.

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 : Keep in suitable, closed containers for disposal. Sweep up.
- : Use mechanical handling equipment.
- 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

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7.1. Precautions for safe handling

Advice on safe handling : Keep container tightly closed. Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Do not breathe vapours or spray mist. Use respirator with appropriate filter if vapours or aerosol are released. 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. Avoid dust formation.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store in original container.

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. Keep in a well-ventilated place.

Advice on common storage : Keep away from food, drink and animal feedingstuffs. Keep away from combustible material. Acids alkalis Reducing agents

7.3. Specific end use(s)

Specific use(s) : No information available.

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.

8.2. Exposure controls

Appropriate engineering controls

Refer to protective measures listed in sections 7 and 8.

Personal protective equipment

Respiratory protection

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Advice : In case of brief exposure or low pollution use breathing filter apparatus.
In case of intensive or longer exposure use self-contained breathing apparatus.
Equipment should conform to EN 149
Particle filter:P2
Particle filter:P3

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 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.

Eye protection

Advice : Safety goggles
Face-shield
Equipment should conform to EN 166

Skin and body protection

Advice : Impervious clothing
Chemical resistant apron

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 : granules
Physical state : solid
Colour : white
Odour : pungent
Odour Threshold : No data available
Melting point/range : 180 °C
Decomposition
: Not applicable

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Flammability	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Flash point	:	Not applicable
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Self-Accelerating decomposition temperature (SADT)	:	> 175 °C
pH	:	9.4
Viscosity		
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Flow time	:	No data available
Solubility(ies)		
Water solubility	:	200 g/l (20 °C)
Solubility in other solvents	:	No data available
Dissolution Rate	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Dispersion Stability	:	No data available
Vapour pressure	:	No data available
Relative density	:	No data available
Density	:	2 g/cm ³
Bulk density	:	No data available
Relative vapour density	:	No data available
Particle characteristics		
No data available		

9.2 Other information

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Advice : See sub-sections below.

10.2. Chemical stability

Advice : Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions : Hazardous polymerisation does not occur.

10.4. Conditions to avoid

Conditions to avoid : None known.

10.5. Incompatible materials

Materials to avoid : Combustible material, Acids

10.6. Hazardous decomposition products

Hazardous decomposition products : Carbon oxides, Halogenated compounds, hydrogen chloride, Metal oxides

SECTION 11: Toxicological information**11.1. Information on toxicological effects**

Component:	calcium hypochlorite	CAS-No. 7778-54-3
Acute toxicity		
Oral		
LD50	: 850 mg/kg (Rat)	
Inhalation		
No data available		
Dermal		
LD50	: > 2000 mg/kg (Rabbit)	
Irritation		
Skin		
Result	: Very corrosive (Rabbit)	

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Eyes

Result : Causes serious eye damage. (Rabbit)

Sensitisation

Result : Did not cause sensitisation on laboratory animals.

CMR effects

CMR Properties

Carcinogenicity : No data available
 Mutagenicity : No data available
 Reproductive toxicity : No data available

Specific Target Organ Toxicity

Single exposure

Remarks : No data available

Repeated exposure

Remarks : No data available

Other toxic properties

Aspiration hazard

Not applicable,

11.2. Information on other hazards

Data for the product

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

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Component:	calcium hypochlorite	CAS-No. 7778-54-3
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Acute toxicity

Fish

LC50 : 0.088 mg/l (Lepomis macrochirus (Bluegill sunfish); 96 h)
 LC50 : 0.16 mg/l (Oncorhynchus mykiss (rainbow trout); 96 h)

Toxicity to daphnia and other aquatic invertebrates

EC50 : 0.11 mg/l (Daphnia magna (Water flea); 48 h)

algae

: Very toxic to aquatic organisms.

M-Factor

M-Factor (Acute Aquat. Tox.) : 10

12.2. Persistence and degradability

Component:	calcium hypochlorite	CAS-No. 7778-54-3
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Persistence and degradability

Persistence

Result : No data available

Biodegradability

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

12.3. Bioaccumulative potential

Component:	calcium hypochlorite	CAS-No. 7778-54-3
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Bioaccumulation

Result : No data available

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12.4. Mobility in soil

Component:	calcium hypochlorite	CAS-No. 7778-54-3
Mobility		

Water : The product is water soluble.

12.5. Results of PBT and vPvB assessment

Data for the product		
Results of PBT and vPvB assessment		

Result : 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.

Component:	calcium hypochlorite	CAS-No. 7778-54-3
Results of PBT and vPvB assessment		

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

12.6. Endocrine disrupting properties

Data for the product		
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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.
Harmful effects to aquatic organisms due to pH-shift.

Component:	calcium hypochlorite	CAS-No. 7778-54-3
Additional ecological information		

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

SECTION 13: Disposal considerations

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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.
- 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

14.1. UN number

3487

14.2. UN proper shipping name

- ADR : CALCIUM HYPOCHLORITE, HYDRATED, CORROSIVE
 RID : CALCIUM HYPOCHLORITE, HYDRATED, CORROSIVE
 IMDG : CALCIUM HYPOCHLORITE HYDRATED, CORROSIVE

14.3. Transport hazard class(es)

- ADR-Class : 5.1
 (Labels; Classification Code; Hazard Identification Number; Tunnel restriction code) 5.1, 8; OC2; 58; (E)
- RID-Class : 5.1
 (Labels; Classification Code; Hazard Identification Number) 5.1, 8; OC2; 58
- IMDG-Class : 5.1
 (Labels; EmS) 5.1, 8; F-H, S-Q

14.4. Packaging group

- ADR : II
 RID : II
 IMDG : II

14.5. Environmental hazards

- Environmentally hazardous according to ADR : yes
 Environmentally hazardous according to RID : yes
 Marine Pollutant according to IMDG-Code : yes

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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

Component:	calcium hypochlorite	CAS-No. 7778-54-3
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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) : ; The substance/mixture does not fall under this legislation.

EU. Regulation No 1451/2007 [Biocides], Annex I, OJ (L 325) : EC Number: , 231-908-7; Listed

EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex I : Qualifying quantity for the application of Lower-tier requirements: 50 tonnes; Part 1: Categories of dangerous substances; Oxidising Liquids, Category 1, 2 or 3, or; Oxidising Solids, Category 1, 2 or 3

Qualifying quantity for the application of Upper-tier requirements: 200 tonnes; Part 1: Categories of dangerous substances; Oxidising Liquids, Category 1, 2 or 3, or; Oxidising Solids, Category 1, 2 or 3

Qualifying quantity for the application of Lower-tier requirements: 100 tonnes; Part 1: Categories of dangerous substances; Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1

Qualifying quantity for the application of Upper-tier

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requirements: 200 tonnes; Part 1: Categories of dangerous substances; Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1

UK. Releases to air and water (UK ISR) : Annual reporting level threshold: 10,000 kg

Germany. Ordinance on Facilities Handling Substances that are Hazardous to Water, ((AwSV of 21 April 2017), UBA, BAnz AT), as amended : WGK 2: obviously hazardous to water: 2,062

15.2. Chemical safety assessment

No data available

SECTION 16: Other information

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

H272	May intensify fire; oxidizer.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H400	Very toxic to aquatic life.

Full text of the Notes referred to under section 3.

Note T	This substance may be marketed in a form which does not have the physical hazards as indicated by the classification in the entry in Part 3. If the results of the relevant method or methods in accordance with Part 2 of Annex I of this Regulation show that the specific form of substance marketed does not exhibit this physical property or these physical hazards, the substance shall be classified in accordance with the result or results of this test or these tests. Relevant information, including reference to the relevant test method(s) shall be included in the safety data sheet.
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Abbreviations and Acronyms

AU AIICL	Australia. Industrial Chemicals Act (AIIC) List
BCF	bioconcentration factor
BOD	biochemical oxygen demand
CAS	Chemical Abstracts Service

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CLP	Classification, Labelling and Packaging
CMR	carcinogenic, mutagenic or toxic to reproduction
COD	chemical oxygen demand
DNEL	derived no-effect level
DSL	Canada. Environmental Protection Act, Domestic Substances List
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
ENCS (JP)	Japan. Kashin-Hou Law List
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
IECSC	China. Inventory of Existing Chemical Substances
INSQ	Mexico. National Inventory of Chemical Substances
ISHL (JP)	Japan. Inventory of Industrial Safety & Health
KECI (KR)	Korea. Existing Chemicals Inventory
LC50	median lethal concentration
LOAEC	lowest observed adverse effect concentration
LOAEL	lowest observed adverse effect level
LOEL	lowest observed effect level
NDSL	Canada. Environmental Protection Act. Non-Domestic Substances List
NLP	no-longer polymer
NOAEC	no observed adverse effect concentration
NOAEL	no observed adverse effect level
NOEC	no observed effect concentration
NOEL	no observed effect level
NZIOC	New Zealand. Inventory of Chemicals
OECD	Organisation for Economic Cooperation and Development
OEL	occupational exposure limit
ONT INV	Canada. Ontario Inventory List
PBT	persistent, bioaccumulative and toxic
PHARM (JP)	Japan. Pharmacopoeia Listing
PICCS (PH)	Philippines. Inventory of Chemicals and Chemical Substances
PNEC	predicted no-effect concentration
REACH Auth. No.:	REACH Authorisation Number
REACH AuthAppC. No.	REACH Authorisation Application Consultation Number
STOT	specific target organ toxicity
SVHC	substance of very high concern
TCSI	Taiwan. Existing Chemicals Inventory
TH INV	Thailand. Existing Chemicals Inventory from FDA
TSCA	US. Toxic Substances Control Act
UVCB	substance of unknown or variable composition, complex reaction products or biological materials

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VN INVL Vietnam. National Chemical Inventory
vPvB very persistent and very bioaccumulative

Further information

Key literature references : 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.