

## Calcium nitrate (anhydrous)

Version number: 1.0

### SECTION 1: Identification

#### 1.1 Product identifier

<b>Identification of the substance</b>	calcium nitrate
<b>Trade name</b>	<b><u>Calcium nitrate (anhydrous)</u></b>
<b>CAS number</b>	10124-37-5

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

<b>Relevant identified uses</b>	Industrial use Chemicals for various applications Production of fertiliser
<b>Uses advised against</b>	Do not use for private purposes (household)

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

Valudor Products, LLC 179 Calle Magdalena Suite 100 Encinitas, California CA 92024 United States	Telephone: +1 (760) 635 8500 e-mail: info@valudor.com Website: www.valudor.com
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#### 1.4 Emergency telephone number

<b>Emergency information service</b>	800-535-5053 (Infotrac)
As above or next toxicological information centre.	

### SECTION 2: Hazard(s) identification

#### 2.1 Classification of the substance or mixture

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Classification				
Section	Hazard class	Category	Hazard class and category	Hazard statement
A.10	acute toxicity (oral)	4	Acute Tox. 4	H302
A.3	serious eye damage/eye irritation	1	Eye Dam. 1	H318
B.14	oxidizing solid	3	Ox. Sol. 3	H272

For full text of abbreviations: see SECTION 16

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## 2.2 Label elements

Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

**Signal word** danger

**Pictograms**

GHS03, GHS05,  
GHS07



**Hazard statements**

**H272** May intensify fire; oxidizer.

**H302** Harmful if swallowed.

**H318** Causes serious eye damage.

**Precautionary statements**

**P210** Keep away from heat/sparks/open flames/hot surfaces. No smoking.

**P220** Keep/store away from clothing/combustible materials.

**P221** Take any precaution to avoid mixing with combustibles.

**P264** Wash thoroughly after handling.

**P270** Do not eat, drink or smoke when using this product.

**P280** Wear protective gloves/protective clothing/eye protection/face protection.

**P305+P351+P338** If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**P310** Immediately call a poison center/doctor.

**P330** Rinse mouth.

**P370+P378** In case of fire: Use water to extinguish.

**P501** Dispose of contents/container in accordance with local/regional/national/international regulations.

## 2.3 Other hazards

**Results of PBT and vPvB assessment**

According to the results of its assessment, this substance is not a PBT or a vPvB.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

**Name of substance** calcium nitrate

**Identifiers**

CAS No 10124-37-5

**Molecular formula** Ca(NO<sub>3</sub>)<sub>2</sub>

**Molar mass** 164.1 g/mol

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Name of substance	Identifier	Wt%
calcium nitrate	CAS No 10124-37-5	≥ 96
ammonium nitrate	CAS No 6484-52-2	≤ 1.7

The specific exact percentage (concentration) of composition has been withheld as a trade secret.

## SECTION 4: First-aid measures

### 4.1 Description of first-aid measures

#### General notes

Take off immediately all contaminated clothing.  
In all cases of doubt, or when symptoms persist, seek medical advice.

#### Following inhalation

Provide fresh air.  
If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions.

#### Following skin contact

Wash with plenty of soap and water.

#### Following eye contact

Rinse immediately carefully and thoroughly with eye shower or water.  
Remove contact lenses, if present and easy to do. Continue rinsing.  
Get immediate medical advice/attention.

#### Following ingestion

Rinse mouth. Do not induce vomiting.  
Call a physician in any case.

#### Notes for the doctor

None.

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

These information are not available.

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

None.

## SECTION 5: Fire-fighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

water

#### Unsuitable extinguishing media

water jet, foam, fire extinguishing powder, sand

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## 5.2 Special hazards arising from the substance or mixture

Hazardous decomposition products: Section 10.  
Oxidizing property.

### Hazardous combustion products

nitrogen oxides (NO<sub>x</sub>)

## 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes.  
Coordinate firefighting measures to the fire surroundings.  
Do not allow firefighting water to enter drains or water courses.  
Collect contaminated firefighting water separately.  
Fight fire with normal precautions from a reasonable distance.

### Special protective equipment for firefighters

chemical protection suit, self-contained breathing apparatus (SCBA)

## SECTION 6: Accidental release measures

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

#### For non-emergency personnel

Remove persons to safety.  
Ventilate affected area.  
Control of dust.  
Do not breathe dust.  
Do not get in eyes, on skin, or on clothing.  
Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing.

#### For emergency responders

Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

### 6.2 Environmental precautions

Keep away from drains, surface and ground water.  
Retain contaminated washing water and dispose of it.

### 6.3 Methods and material for containment and cleaning up

#### Advice on how to contain a spill

Take up mechanically.

#### Advice on how to clean up a spill

Take up mechanically.  
Collect spillage.

#### Other information relating to spills and releases

Place in appropriate containers for disposal.  
Ventilate affected area.

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## 6.4 Reference to other sections

Hazardous combustion products: see section 5.

Personal protective equipment: see section 8.

Incompatible materials: see section 10.

Disposal considerations: see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation.

#### Specific notes/details

None.

#### Handling of incompatible substances or mixtures

##### Keep away from

organic absorbing material, pulp/paper

#### Measures to protect the environment

Avoid release to the environment.

#### Advice on general occupational hygiene

Do not eat, drink and smoke in work areas.

Remove contaminated clothing and protective equipment before entering eating areas.

Do not breathe dust.

Do not get in eyes, on skin, or on clothing.

Wash thoroughly after handling.

Preventive skin protection (barrier creams/ointments) is recommended.

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

#### Flammability hazards

Keep reduction valves/valves and fittings free from oil and grease.

#### Incompatible substances or mixtures

Incompatible materials: see section 10.

Observe compatible storage of chemicals.

Keep/store away from clothing/combustible materials.

Take any precaution to avoid mixing with combustibles.

#### Protect against external exposure, such as

heat, humidity

#### Consideration of other advice

Keep away from food, drink and animal feedingstuffs.

Store in a dry place. Store in a closed container.

Store in a well-ventilated place. Keep cool.

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## Ventilation requirements

Provision of sufficient ventilation.

## Packaging compatibilities

Only packagings which are approved (e.g. acc. to DOT) may be used.

## 7.3 Specific end use(s)

No information available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Human health values

Relevant DNELs and other threshold levels				
Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
DNEL	98 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
DNEL	13.9 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects

Relevant DNELs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
calcium nitrate	10124-37-5	DNEL	98 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
calcium nitrate	10124-37-5	DNEL	13.9 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
ammonium nitrate	6484-52-2	DNEL	36 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
ammonium nitrate	6484-52-2	DNEL	5.12 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects

#### Environment values

Relevant PNECs and other threshold levels		
Endpoint	Threshold level	Environmental compartment
PNEC	0.45 mg/l	freshwater
PNEC	0.045 mg/l	marine water
PNEC	4.5 mg/l	water

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Relevant PNECs and other threshold levels		
Endpoint	Threshold level	Environmental compartment
PNEC	18 mg/l	sewage treatment plant (STP)

Relevant PNECs of components of the mixture				
Name of substance	CAS No	Endpoint	Threshold level	Environmental compartment
calcium nitrate	10124-37-5	PNEC	0.45 mg/l	freshwater
calcium nitrate	10124-37-5	PNEC	0.045 mg/l	marine water
calcium nitrate	10124-37-5	PNEC	4.5 mg/l	water
calcium nitrate	10124-37-5	PNEC	18 mg/l	sewage treatment plant (STP)
ammonium nitrate	6484-52-2	PNEC	18 mg/l	sewage treatment plant (STP)

## 8.2 Exposure controls

### Appropriate engineering controls

General ventilation.

### Individual protection measures (personal protective equipment)

#### Eye/face protection

Wear eye/face protection.

#### Hand protection

Protective gloves		
Material	Material thickness	Breakthrough times of the glove material
NR: natural rubber, latex	≥ 0,5 mm	>480 minutes (permeation: level 6)
CR: chloroprene (chlorobutadiene) rubber	≥ 0,5 mm	>480 minutes (permeation: level 6)
IIR: isobutene-isoprene (butyl) rubber	≥ 0,5 mm	>480 minutes (permeation: level 6)
PVC: polyvinyl chloride	≥ 0,5 mm	>480 minutes (permeation: level 6)
FKM: fluoro-elastomer	≥ 0,4 mm	>480 minutes (permeation: level 6)
NBR: acrylonitrile-butadiene rubber	≥ 0,35 mm	>480 minutes (permeation: level 6)

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Wear suitable gloves.

Chemical protection gloves are suitable, which are tested according to EN 374.

Check leak-tightness/impermeability prior to use.

In the case of wanting to use the gloves again, clean them before taking off and air them well.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

## Body protection

Protective clothing for use against solid particulates.

## Respiratory protection

In case of inadequate ventilation wear respiratory protection.

## Environmental exposure controls

Use appropriate container to avoid environmental contamination.

Keep away from drains, surface and ground water.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

##### Physical state

solid  
(granulate)

##### Color

white - greyish - yellow

##### Odor

odorless

#### Other safety parameters

##### pH (value)

6 (in aqueous solution: 5 wt%, 20 °C)

##### Melting point/freezing point

~560 °C

##### Boiling point or initial boiling point and boiling range

not determined

##### Flash point

not applicable

##### Evaporation rate

not determined

##### Flammability (solid, gas)

non-combustible

##### Explosive limits

not determined

Explosion limits of dust clouds

not determined

##### Vapor pressure

not determined

Density

2.5 g/cm<sup>3</sup> at 20 °C

Vapor density

this information is not available



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Relative density	2.5 (water = 1)
<b>Solubility(ies)</b>	
Water solubility	miscible in any proportion
<b>Partition coefficient</b>	
n-octanol/water (log KOW)	not relevant (inorganic)
Auto-ignition temperature	not determined
<b>Decomposition temperature</b>	196 – 198 °C
<b>Viscosity</b>	not relevant (solid)
<b>Explosive properties</b>	none
<b>Oxidizing properties</b>	oxidizer
<b>Information for relevant hazard classes according to GHS</b>	there is no additional information
<b>9.2 Other information</b>	there is no additional information

### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

It's a reactive substance.  
Oxidizing property.

#### 10.2 Chemical stability

See below "Conditions to avoid".

#### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

#### 10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

#### 10.5 Incompatible materials

reducing agents, Combustible materials

#### 10.6 Hazardous decomposition products

Nitrogen oxides (NOx).  
Hazardous combustion products: see section 5.

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

If not otherwise specified the classification is based on:

Animal studies; Evidence from any other toxicity tests; Expert judgment (weight of evidence determination).

#### Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

##### Acute toxicity

Shall not be classified as acutely toxic (dermal).

Harmful if swallowed.

Exposure route	Endpoint	Value	Species	Method
oral	LD50	>300 - <2,000 mg/kg	rat	OECD Guideline 423
dermal	LD50	>2,000 mg/kg	rat	OECD Guideline 402

##### Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

(OECD Guideline 404 , read-across)

##### Serious eye damage/eye irritation

Causes serious eye damage.

(OECD Guideline 405 , read-across)

##### Respiratory or skin sensitization

###### Skin sensitization

Shall not be classified as a skin sensitizer.

(OECD Guideline 429 , read-across)

##### Respiratory sensitization

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

##### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

(OECD Guideline 471, OECD Guideline 473, OECD Guideline 476)

##### Carcinogenicity

###### IARC Monographs

not listed

###### National Toxicology Program (United States)

not listed

###### OSHA Carcinogens

Not listed.

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## Reproductive toxicity

Shall not be classified as a reproductive toxicant.  
(OECD Guideline 422 , read-across)

## Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

## Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Exposure route	Endpoint	Value	Exposure time	Species	Method	Notes
oral	NOAEL	≥1,000 mg/kg bw/day	28 d	rat	OECD Guideline 407	read-across
oral	NOAEL	≥1,500 mg/kg bw/day	28 d	rat	OECD Guideline 422	read-across

## Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

## 11.2 Other information

There is no additional information.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Aquatic toxicity (acute)

Based on available data, the classification criteria are not met.

Endpoint	Exposure time	Value	Species	Method	Notes
LC50	96 h	>100 mg/l	rainbow trout ( <i>Oncorhynchus mykiss</i> )	OECD Guideline 203	read-across
LC50	96 h	1,378 mg/l	guppy ( <i>Poecilia reticulata</i> )	OECD Guideline 203	read-across
LC50	48 h	447 mg/l	common carp ( <i>Cyprinus caprio</i> )	-	read-across
EC50	48 h	490 mg/l	daphnia magna	-	read-across

#### Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Exposure time	Value	Species	Method	Notes
calcium nitrate	10124-37-5	LC50	96 h	>100 mg/l	rainbow trout ( <i>Oncorhynchus mykiss</i> )	OECD Guideline 203	-

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Name of substance	CAS No	Endpoint	Exposure time	Value	Species	Method	Notes
ammonium nitrate	6484-52-2	LC50	48 h	447 mg/l	carp (cyprinus carpio)	-	-
ammonium nitrate	6484-52-2	EC50	48 h	490 mg/l	daphnia magna	-	read-across

### Aquatic toxicity (chronic)

Based on available data, the classification criteria are not met.

Endpoint	Exposure time	Value	Species	Method	Notes
ErC50	10 d	>1,700 mg/l	algae	-	read-across

### Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Exposure time	Value	Species	Method	Notes
calcium nitrate	10124-37-5	ErC50	10 d	>1,700 mg/l	algae	-	-
calcium nitrate	10124-37-5	EC50	180 min	>1,000 mg/l	microorganisms	-	-
calcium nitrate	10124-37-5	growth (Eb-Cx) 10%	180 min	180 mg/l	microorganisms	-	-
ammonium nitrate	6484-52-2	ErC50	10 d	>1,700 mg/l	algae	-	read-across

## 12.2 Persistence and degradability

### Biodegradation

The study does not need to be conducted because the substance is inorganic.

### Persistence

The study does not need to be conducted because the substance is inorganic.

## 12.3 Bioaccumulative potential

No data available.

## 12.4 Mobility in soil

No data available.

## 12.5 Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

## 12.6 Other adverse effects

This information is not available.

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## Remarks

Wassergefährdungsklasse, WGK (water hazard class): 1

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Sewage disposal-relevant information

Do not empty into drains.

#### Waste treatment of containers/packages

Completely emptied packages can be recycled.

Handle contaminated packages in the same way as the substance itself.

## Remarks

Please consider the relevant national or regional provisions.

## SECTION 14: Transport information

### 14.1 UN number

DOT UN1454

IMDG-Code UN1454

ICAO-TI UN1454

### 14.2 UN proper shipping name

DOT Calcium nitrate

IMDG-Code CALCIUM NITRATE

ICAO-TI Calcium nitrate

### 14.3 Transport hazard class(es)

DOT 5.1

IMDG-Code 5.1

ICAO-TI 5.1

### 14.4 Packing group

DOT III

IMDG-Code III

ICAO-TI III

### 14.5 Environmental hazards

-

### 14.6 Special precautions for user

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**14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code** -

**14.8 Information for each of the UN Model Regulations**

**Transport of dangerous goods by road or rail (49 CFR US DOT) Additional information**

Particulars in the shipper's declaration UN1454, Calcium nitrate, 5.1, III

Danger label(s) 5.1



Special provisions (SP) 34, B120, IB8, IP3, T1, TP33

ERG No 140

**International Maritime Dangerous Goods Code (IMDG) Additional information**

Marine pollutant -

Danger label(s) 5.1



Special provisions (SP) 208, 967

Excepted quantities (EQ) E1

Limited quantities (LQ) 5 kg

EmS F-A, S-Q

Stowage category A

**International Civil Aviation Organization (ICAO-IATA/DGR) Additional information**

Danger label(s) 5.1



Special provisions (SP) A83

Excepted quantities (EQ) E1

Limited quantities (LQ) 10 kg

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## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations specific for the product in question

#### National regulations (United States)

**Toxic Substance Control Act (TSCA)** substance is listed

#### Superfund Amendment and Reauthorization Act (SARA TITLE III )

**The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304)**

not listed

#### Specific Toxic Chemical Listings (EPCRA Section 313)

not listed

#### Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

**List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4)**

not listed

#### Clean Air Act

not listed

#### Right to Know Hazardous Substance List

##### Hazardous Substance List (NJ-RTK)

Name of substance	CAS No	Remarks	Classifications
calcium nitrate	10124-37-5	-	R1.

##### Legend

R1 Reactive - First Degree

#### California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987

not listed

#### Industry or sector specific available guidance(s)

##### NPCA-HMIS® III

Hazardous Materials Identification System.  
American Coatings Association.

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Category	Rating	Description
Chronic	/	none
Health	2	temporary or minor injury may occur
Flammability	1	material that must be preheated before ignition can occur
Physical hazard	1	material that is normally stable but can become unstable (self-react) at high temperatures and pressures. Material may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors
Personal protection	-	-

### NFPA® 704

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States).

Category	Degree of hazard	Description
Flammability	1	material that must be preheated before ignition can occur
Health	0	material that, under emergency conditions, would offer no hazard beyond that of ordinary combustible material
Instability	0	material that is normally stable, even under fire conditions
Special hazard	OX	oxidizer that causes a severe increase in the burning rate of combustible materials with which it comes into contact

## 15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance by the supplier.

### SECTION 16: Other information, including date of preparation or last revision

Date of preparation: 2021-09-09

#### Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
49 CFR US DOT	49 CFR U.S. Department of Transportation
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
DOT	Department of Transportation (USA)
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EmS	Emergency Schedule



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Abbr.	Descriptions of used abbreviations
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
ERG No	Emergency Response Guidebook - Number
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IARC Mono-graphs	IARC Monographs on the Evaluation of Carcinogenic Risks to Humans
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air
IMDG	International Maritime Dangerous Goods Code
IMDG-Code	International Maritime Dangerous Goods Code
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
NOAEL	No Observed Adverse Effect Level
NPCA-HMIS® III	National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition
OSHA	Occupational Safety and Health Administration (United States)
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
vPvB	Very Persistent and very Bioaccumulative

### Key literature references and sources for data

OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200.

Transport of dangerous goods by road or rail (49 CFR US DOT).

International Maritime Dangerous Goods Code (IMDG).

Dangerous Goods Regulations (DGR) for the air transport (IATA).

### List of relevant phrases (code and full text as stated in chapter 2 and 3)

Code	Text
H272	May intensify fire; oxidizer.
H302	Harmful if swallowed.

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Code	Text
H318	Causes serious eye damage.

### Responsible for the safety data sheet

Chemical Regulatory Compliance Company Telephone: +1 (630) 410-1660  
Chicago, IL e-Mail: GHS@crc-us.com  
USA Website: www.crc-us.com

### Disclaimer

This information is based upon the present state of our knowledge.  
This SDS has been compiled and is solely intended for this product.