



## BAEROPAN MC 8553 KA-ST/3 - US

Version 1.0

Revision Date 06/21/2022

### SECTION 1. IDENTIFICATION

#### Product identifier

Trade name : **BAEROPAN MC 8553 KA-ST/3 - US**

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

Use of the Sub-  
stance/Mixture : Manufacture of plastics products  
Polymer additive  
Stabilizer

Recommended restrictions  
on use : None known.

#### Manufacturer or supplier's details

Company name of supplier : Baerlocher Production USA LLC  
513-604-2327

Address : 5890 Highland Ridge Drive  
Cincinnati OH 45232

Emergency telephone num-  
ber : CHEMTREC: 1-800-424-9300 (inside U.S.) / 1-703 527-3887  
(outside U.S.) Collect calls are accepted

E-mail address : Hotline.PS@baerlocher.com

Responsible/issuing person : Product Safety Department

### SECTION 2. HAZARDS IDENTIFICATION

#### GHS Classification

Combustible dust : Category 1

#### GHS label elements

Signal word : Warning

Hazard statements : May form combustible dust concentrations in air.

#### Other hazards

Dust can form an explosive mixture in air.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : Mixture

#### Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
Aluminium magnesium zinc carbonate hydroxide	169314-88-9	≥ 25*



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Zinc compounds*	Trade Secret	< 25*
Titanium dioxide	13463-67-7	< 5*

\*Trade Secret - The specific chemical identity and/or exact percentage of composition has been withheld as a trade secret.

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**SECTION 4. FIRST AID MEASURES**

- If inhaled : Move to fresh air.
- In case of skin contact : Wash off with soap and plenty of water.
- In case of eye contact : Rinse with plenty of water.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.  
Get medical advice/ attention if you feel unwell.  
Show this safety data sheet to the doctor in attendance.
- Most important symptoms and effects, both acute and delayed : No information available.
- Notes to physician : Treat symptomatically.

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**SECTION 5. FIREFIGHTING MEASURES**

- Suitable extinguishing media : Water spray  
Foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical  
Sand
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during fire-fighting : Smoke and fumes, toxic.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

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**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions, protective equipment and emergency procedures : Remove all sources of ignition.  
Avoid dust formation.  
Provide adequate ventilation.



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For personal protection see section 8.

- Environmental precautions : Do not flush into surface water or sanitary sewer system.  
Avoid subsoil penetration.
- Methods and materials for containment and cleaning up : Use mechanical handling equipment.  
Keep in suitable, closed containers for disposal.

**SECTION 7. HANDLING AND STORAGE**

- Advice on safe handling : Take precautionary measures against static discharges.  
Keep away from sources of ignition - No smoking.  
Avoid formation and buildup of dust.
- Conditions for safe storage : Store at room temperature in the original container.  
Keep in a dry place.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Components with workplace control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Zinc compounds	Trade Secret	PEL	15 mg/m <sup>3</sup> (total dust)	OSHA Z-1
		PEL	5 mg/m <sup>3</sup> (Respirable fraction)	OSHA Z-1
		TWA	10 mg/m <sup>3</sup> (total dust)	NIOSH REL
		TWA	5 mg/m <sup>3</sup> (Respirable fraction)	NIOSH REL
		TWA	10 mg/m <sup>3</sup> (Respirable dust)	ACGIH
		TWA	5 mg/m <sup>3</sup> (Respirable fraction)	ACGIH
Titanium dioxide	13463-67-7	PEL	15 mg/m <sup>3</sup> (total dust)	OSHA Z-1
		air 8 h	10 mg/m <sup>3</sup>	ACGIH
Dust	Not Assigned	TWA (total dust)	50 Million particles per cubic foot	OSHA Z-3
		TWA (total dust)	15 mg/m <sup>3</sup>	OSHA Z-3
		TWA (respirable fraction)	5 mg/m <sup>3</sup>	OSHA Z-3
		TWA (respirable fraction)	15 Million particles per cubic foot	OSHA Z-3
Particulates	Not Assigned	TWA (total)	15 mg/m <sup>3</sup>	OSHA Z-1



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		dust)		
		TWA (respirable fraction)	5 mg/m3	OSHA Z-1
		TWA (Total)	15 mg/m3	OSHA P0
		TWA (Respirable fraction)	5 mg/m3	OSHA P0
		TWA (Inhalable particulate matter)	10 mg/m3	ACGIH
		TWA (Respirable particulate matter)	3 mg/m3	ACGIH

**Engineering measures** : Local exhaust

**Personal protective equipment**

Respiratory protection : P1 filter respirator for inert particles

Hand protection  
Directive : protective gloves acc. to EN 374, e.g. neoprene

Eye protection : Safety glasses

Skin and body protection : Long sleeved clothing

Protective measures : antistatic shoes

Hygiene measures : When using do not eat or drink.  
Do not smoke.  
Wash hands before breaks and at the end of workday.  
Shower or bathe at the end of working.  
Keep working clothes separately.  
Handle in accordance with good industrial hygiene and safety practice.  
Regular cleaning of equipment, work area and clothing.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : powder

Color : off-white

Odor : slight

Odor Threshold : No data available

pH : No data available

Melting point/range : > 100 °C



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Boiling point/boiling range	:	No data available
Flash point	:	>> 100 °C
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Combustible Solids
Upper explosion limit	:	No data available
Lower explosion limit	:	No data available
Vapor pressure	:	No data available
Relative vapor density	:	No data available
Relative density	:	No data available
Density	:	No data available
Bulk density	:	No data available
Solubility(ies) Water solubility	:	practically insoluble
Partition coefficient: n- octanol/water	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available

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**SECTION 10. STABILITY AND REACTIVITY**

Reactivity	:	Stable at normal ambient temperature and pressure.
Chemical stability	:	No decomposition if stored normally.
Possibility of hazardous reactions	:	Applies to granules (R), pastilles (TX) and flakes (SMS): The product is not a dust explosion risk as supplied; however the build-up of fine dust can lead to a risk of dust explosions. Applies to powder and remaining product forms: Dust can form an explosive mixture in air.
Conditions to avoid	:	Avoid dust formation. Keep away from heat and sources of ignition.
Incompatible materials	:	Strong oxidizing agents



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Hazardous decomposition products : No decomposition if used as directed.

**SECTION 11. TOXICOLOGICAL INFORMATION**

**Acute toxicity**

**Product:**

Acute oral toxicity : Acute toxicity estimate: 2,839 mg/kg  
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: 6.55 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 5,000 mg/kg  
Method: Calculation method

**Components:**

**Aluminium magnesium zinc carbonate hydroxide:**

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: standardised international/national methodology  
Remarks: Based on available data, the classification criteria are not met.

Acute inhalation toxicity : LC50 (Rat): > 5.17 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: standardised international/national methodology  
Remarks: Based on available data, the classification criteria are not met.

Acute dermal toxicity : Remarks: Read-across (Analogy)  
  
LD50 (Rat): > 2,000 mg/kg  
Remarks: Based on available data, the classification criteria are not met.

**Zinc compounds:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg  
Method: OECD Test Guideline 401

Remarks: Read-across (Analogy)

LD50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 423  
Remarks: Based on available data, the classification criteria are not met.



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- Acute inhalation toxicity : LC50 (Rat): > 200 mg/l  
Exposure time: 1 h  
Test atmosphere: dust/mist
- LC50 (Rat): > 50 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Remarks: Based on available data, the classification criteria are not met.
- Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg  
Remarks: Based on available data, the classification criteria are not met.

### Skin corrosion/irritation

#### Components:

##### **Aluminium magnesium zinc carbonate hydroxide:**

Species: Rabbit  
Method: standardised international/national methodology  
Result: No skin irritation  
Remarks: Based on available data, the classification criteria are not met.

##### **Zinc compounds:**

Species: Rabbit  
Method: OECD Test Guideline 404  
Result: No skin irritation  
Remarks: Based on available data, the classification criteria are not met.

### Serious eye damage/eye irritation

#### Components:

##### **Aluminium magnesium zinc carbonate hydroxide:**

Species: Rabbit  
Result: not irritating  
Method: standardised international/national methodology  
Remarks: Based on available data, the classification criteria are not met.

##### **Zinc compounds:**

Species: Rabbit  
Result: not irritating  
Method: OECD Test Guideline 405  
Remarks: Based on available data, the classification criteria are not met.

### Respiratory or skin sensitisation

#### Components:

##### **Aluminium magnesium zinc carbonate hydroxide:**



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Test Type: Skin sensitisation  
Species: Guinea pig  
Method: standardised international/national methodology  
Result: Does not cause skin sensitisation.  
Remarks: Based on available data, the classification criteria are not met.

Remarks: Respiratory sensitisation  
Not classified due to lack of data.

### **Zinc compounds:**

Remarks: Skin sensitisation  
Patch test on human volunteers did not demonstrate sensitisation properties.  
Based on available data, the classification criteria are not met.

Remarks: Respiratory sensitisation  
Based on available data, the classification criteria are not met.

### **Germ cell mutagenicity**

#### **Components:**

##### **Aluminium magnesium zinc carbonate hydroxide:**

Genotoxicity in vitro : Test Type: Mutagenicity (Salmonella typhimurium - reverse mutation assay)  
Species: Bacteria  
Method: standardised international/national methodology  
Result: negative

: Test Type: In vitro gene mutation study in mammalian cells  
Species: mouse lymphoma cells  
Method: standardised international/national methodology  
Result: negative

: Test Type: Mutagenicity (in vitro mammalian cytogenetic test)  
Species: Human lymphocytes  
Method: standardised international/national methodology  
Result: negative  
Remarks: Based on available data, the classification criteria are not met.

### **Zinc compounds:**

Genotoxicity in vitro : Remarks: Read-across (Analogy)

: Method: standardised international/national methodology  
Result: negative  
Remarks: Based on available data, the classification criteria are not met.

Genotoxicity in vivo : Remarks: Read-across (Analogy)

Method: standardised international/national methodology  
Result: negative





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

**Carcinogenicity**

**Product:**

Remarks: One component of this product present at levels greater than or equal to 0.1% is identified as possible human carcinogen Category 2B by IARC: titanium dioxide.  
This product contains no known or suspected carcinogens listed by NTP or OSHA at or above reportable quantities.

**Components:**

**Aluminium magnesium zinc carbonate hydroxide:**

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

**Zinc compounds:**

Remarks: Read-across (Analogy)

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

**Titanium dioxide:**

Remarks: IARC: (International Agency for Research on Cancer)  
Category 2B

**Reproductive toxicity**

**Components:**

**Aluminium magnesium zinc carbonate hydroxide:**

Effects on fertility : Remarks: Based on available data, the classification criteria are not met.

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

Effects on foetal development : Remarks: Based on available data, the classification criteria are not met.  
Remarks: Based on available data, the classification criteria are not met.

**Zinc compounds:**

Effects on fertility : Remarks: Read-across (Analogy)

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



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Remarks: Read-across (Analogy)

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

Effects on foetal development : Remarks: Read-across (Analogy)

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

Remarks: Read-across (Analogy)

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

**STOT - single exposure**

**Components:**

**Aluminium magnesium zinc carbonate hydroxide:**

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

**Zinc compounds:**

Remarks: Read-across (Analogy)

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

**Repeated dose toxicity**

**Components:**

**Aluminium magnesium zinc carbonate hydroxide:**

Species: Rat

NOAEL: 1,000 mg/kg

Application Route: Oral

Exposure time: 28 d

Method: standardised international/national methodology

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

**Zinc compounds:**

Remarks: Read-across (Analogy)

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

**Aspiration toxicity**

**Components:**

**Aluminium magnesium zinc carbonate hydroxide:**

Not classified due to lack of data.

**Zinc compounds:**



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

### SECTION 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

##### Components:

##### **Aluminium magnesium zinc carbonate hydroxide:**

- Toxicity to fish : LC50 (Cyprinus carpio (Carp)): > 100 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203
- LC50 (Cyprinodon variegatus (sheepshead minnow)): > 100 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202
- Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 201
- EC50 (Skeletonema costatum (marine diatom)): > 180 mg/l  
Exposure time: 48 h  
Test Type: Growth inhibition  
Method: ISO 10253
- Toxicity to bacteria : IC50 (activated sludge): > 100 mg/l  
Exposure time: 0.5 h  
Test Type: Respiration inhibition  
Method: OECD Test Guideline 209

##### **Ecotoxicology Assessment**

- Acute aquatic toxicity : Based on available data, the classification criteria are not met.
- Chronic aquatic toxicity : Classification, Labelling according to EC Directives, Regulation (EC) No 1272/2008, Annex VI, Table 3, May cause long lasting harmful effects to aquatic life.

##### **Zinc compounds:**

- Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 10,000 mg/l



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Exposure time: 96 h  
Test Type: semi-static test  
Method: Directive 67/548/EEC, Annex V, C.1.

Remarks: Read-across (Analogy)

LC50 (Oncorhynchus mykiss (rainbow trout)): 0,169 mg Zn/L  
Exposure time: 96 h  
Test Type: static test  
Method: standardised international/national methodology

Remarks: Read-across (Analogy)

(Pimephales promelas (fathead minnow)): 0,330 - 0,780 mg Zn/L

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202

Remarks: Read-across (Analogy)

LC50 (Ceriodaphnia dubia (water flea)): 0.147 - > 0,53 mg Zn/l

Toxicity to algae : NOEC (Pseudokirchneriella subcapitata (green algae)): 19.3 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201

EC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l  
Exposure time: 72 h  
Test Type: semi-static test  
Method: OECD Test Guideline 201  
GLP: yes  
Remarks: Value referred to the Water accumulated fraction (WAF).

EC10 (Pseudokirchneriella subcapitata (green algae)): 3.31 mg/l  
Exposure time: 72 h  
Test Type: semi-static test  
Method: OECD Test Guideline 201  
GLP: yes  
Remarks: Value referred to the Water accumulated fraction (WAF).

Toxicity to fish (Chronic toxicity) : Remarks: Read-across (Analogy)  
NOEC: 0,044 - 0,530 mg Zn/L  
Test Type: Fresh water



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- Remarks: Read-across (Analogy)
- NOEC: 0,025 mg Zn/L  
Test Type: Marine water
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Remarks: Read-across (Analogy)
- NOEC: 0,037 - 0,400 mg Zn/L  
Test Type: Fresh water
- Remarks: Read-across (Analogy)
- NOEC: 0,0056 - 0,9 mg Zn/L  
Test Type: Marine water
- Toxicity to bacteria : NOEC (Photobacterium phosphoreum): 1,560 mg/l  
Exposure time: 0.5 h  
Test Type: static test  
Method: DIN 38412 T 34  
GLP:
- GLP:  
Remarks: Read-across (Analogy)
- EC50 (activated sludge): 5,2 mg Zn/l  
Exposure time: 3 h  
Test Type: static test  
Method: OECD Test Guideline 209  
GLP: no

**Persistence and degradability**

**Components:**

**Aluminium magnesium zinc carbonate hydroxide:**

- Biodegradability : Remarks: The methods for determining biodegradability are not applicable to inorganic substances.

**Zinc compounds:**

- Biodegradability : Ready biodegradability  
Result: Readily biodegradable.  
Biodegradation: 93 %  
Exposure time: 28 d  
Method: closed bottle test according to OECD 301 D
- Remarks: Read-across (Analogy)
- Ready biodegradability  
Result: Readily biodegradable.  
Biodegradation: 72 %  
Exposure time: 29 d



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Method: OECD Test Guideline 301

**Bioaccumulative potential**

**Components:**

**Aluminium magnesium zinc carbonate hydroxide:**

Bioaccumulation : Remarks: No data available

Partition coefficient: n-octanol/water : Remarks: No data available

**Zinc compounds:**

Bioaccumulation : Remarks: Not applicable

**Mobility in soil**

**Components:**

**Aluminium magnesium zinc carbonate hydroxide:**

Mobility : Remarks: No data available

**Zinc compounds:**

Mobility : Remarks: According to experience not expected

**Other adverse effects**

**Components:**

**Aluminium magnesium zinc carbonate hydroxide:**

Results of PBT and vPvB assessment : Based on available data, the classification criteria are not met.

Endocrine disrupting potential : No information available.

**Zinc compounds:**

Results of PBT and vPvB assessment : Based on available data, the classification criteria are not met.

Endocrine disrupting potential : No information available.

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**SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods**

Waste from residues : Consult an expert on the disposal of recovered material. Ensure disposal in compliance with government requirements and ensure conformity to local disposal regulations.

Dispose in accordance with local, state and federal regulations.



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Contaminated packaging : Empty containers must be handled with care due to product residue.

**SECTION 14. TRANSPORT INFORMATION**

**National Regulations**

**DOT**

Not regulated as a dangerous good

**International Regulations**

**IATA-DGR**

Not regulated as a dangerous good

**IMDG-Code**

Not regulated as a dangerous good

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

**SECTION 15. REGULATORY INFORMATION**

**SARA 313** : This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372:

Components	CAS-No.	Wt.
Zinc Compounds (N982)	Not Assigned	89.0

**The components of this product are reported in the following inventories:**

TSCA listed  
DSL listed  
AICS listed  
ECL listed  
CHINA listed  
EINECS complies with the requirements  
ENCS listed  
PICCS listed



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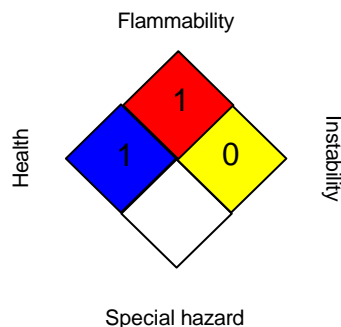
**SECTION 16. OTHER INFORMATION**

**Full text of other abbreviations**

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

**Further information**

**NFPA:**



**HMIS III:**

<b>HEALTH</b>	<b>1/</b>
<b>FLAMMABILITY</b>	<b>1</b>
<b>PHYSICAL HAZARD</b>	<b>0</b>

0 = not significant, 1 = Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic





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