

# SAFETY DATA SHEET

# CLARIANT<sup>E</sup>

**Exolit AP 422**

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Substance key: SXR025503

Revision Date: 07/18/2025

Version : 7 - 0 / USA

Date of printing :10/29/2025

## SECTION 1. IDENTIFICATION

**Identification of the company:**

Clariant Corporation  
500 East Morehead Street  
Charlotte, NC, 28202  
Telephone No.: +1 704 331 7000

**Information of the substance/preparation:**

Product Stewardship, +1-704-331-7710  
e-mail: SDS.NORAM@clariant.com

**Emergency tel. number:** +1 800-424-9300 CHEMTREC

**Trade name:** Exolit AP 422  
**Material number:** 106959  
**CAS number:** 68333-79-9  
**Primary product use:** Flame retardants  
**Chemical family:** ammonium polyphosphate

## SECTION 2. HAZARDS IDENTIFICATION

**GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)**

**Hazards for the product as supplied**

Carcinogenicity : Category 2

Reproductive toxicity : Category 2

**Other hazards**

No hazards to be specially mentioned.

**GHS label elements**

Hazard pictograms :



Signal word : Warning

Hazard statements : H351 Suspected of causing cancer.  
H361f Suspected of damaging fertility.

Precautionary statements : **Prevention:**  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.

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P280 Wear protective gloves, protective clothing, eye protection and face protection.

**Response:**

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

**Storage:**

P405 Store locked up.

**Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

**Hazards resulting from a reaction with other chemicals under normal conditions of use:**

| Conditions                  | Chemicals formed   | Hazards   |
|-----------------------------|--------------------|---|
| Reacts with<br>Strong bases | Ammonium hydroxide | Harmful if swallowed.<br>Causes severe skin burns and eye damage. |

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

Substance name : ammonium polyphosphate

CAS-No. : 68333-79-9

**Components**

| Chemical name | CAS No./Unique ID | Concentration (% w/w) | Trade secret |
|---------------|-------------------|-----------------------|--------------|
| Melamine      | 108-78-1*         | $\geq 0.1 - \leq 1$   | TSC          |

\* Indicates that the identifier is a CAS No.

TSC- the actual concentration or concentration range is withheld as a trade secret

## SECTION 4. FIRST AID MEASURES

General advice : Get medical advice/ attention if you feel unwell.

If inhaled : Move the victim to fresh air.  
Give oxygen or artificial respiration if needed.  
Get immediate medical advice/ attention.  
Never give anything by mouth to an unconscious person.

In case of skin contact : Wash thoroughly with soap and water for 15 minutes. If skin irritation occurs, seek medical attention.

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- In case of eye contact : Flush eyes with water at least 15 minutes. Get medical attention if eye irritation develops or persists.
- If swallowed : If swallowed, DO NOT induce vomiting.  
Do not give anything to drink.  
Call a physician immediately.
- Most important symptoms and effects, both acute and delayed : The possible symptoms known are those derived from the labelling (see section 2).  
No additional symptoms are known.  
Suspected of causing cancer.  
Suspected of damaging fertility.
- Notes to physician : Treat symptomatically.

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**SECTION 5. FIREFIGHTING MEASURES**

- Suitable extinguishing media : Water spray jet  
Foam
- Unsuitable extinguishing media : High volume water jet  
Carbon dioxide (CO<sub>2</sub>)  
Dry powder
- Specific hazards during firefighting : In case of fires, hazardous combustion gases are formed:  
Carbon monoxide (CO)  
Carbon dioxide (CO<sub>2</sub>)  
Ammonia
- Further information : Exercise caution when fighting any chemical fire. Use NIOSH approved self-contained breathing apparatus and full protective clothing.  
Fire fighters should wear full protective clothing including a NIOSH approved self-contained breathing apparatus. During a fire, irritating and/or toxic gases from combustion/decomposition products may be present.  
  
Wear suitable protective equipment.
- Special protective equipment for firefighters : Wear personal protective equipment.

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**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions, protective equipment and emergency procedures : Wear suitable protective equipment.  
For disposal considerations see section 13.  
Wear proper protective equipment. Carefully shovel or sweep up spilled material and place in suitable container. Avoid generating dust. Do not discharge into storm drains or the

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aquatic environment.

Environmental precautions : The product should not be allowed to enter drains, water courses or the soil.

## SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : No special measures necessary.

Advice on safe handling : Use personal protective equipment.  
Store in a dry place.  
Keep away from heat.  
Store in original container.  
Keep container tightly closed.

Conditions for safe storage : Keep container tightly closed.

Further information on storage conditions : Store in original container.  
Keep container tightly closed.  
Store in a cool, dry, well-ventilated area.

Materials to avoid : Do not store together with acids and ammonium salts.

Further information on storage stability : The product has an indefinite shelf life when stored properly.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

| Components | CAS-No.  | Value type<br>(Form of exposure) | Control parameters /<br>Permissible concentration | Basis   |
|------------|----------|----------------------------------|---|---------|
| Melamine   | 108-78-1 | TWA                              | 3 mg/m3   | US WEEL |

**Engineering measures** : Local ventilation recommended - mechanical ventilation may be used.

### Personal protective equipment

Respiratory protection : Use NIOSH/MSHA approved respirators following manufacturer's recommendations where dust or fume may be generated.

Hand protection  
Remarks : Butyl Rubber, PVC Or Neoprene.

Minimum thickness (glove): not determined Minimum

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breakthrough time (glove): not determined

- Eye protection : Safety glasses or chemical splash goggles.
- Skin and body protection : Wear suitable protective equipment.
- Protective measures : Observe the usual precautions for handling chemicals.
- Hygiene measures : Wash hands before breaks and at the end of workday.  
When using do not eat, drink or smoke.  
Use protective skin cream before handling the product.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : powder
- Colour : white
- Odour : odourless
- Odour Threshold : not determined
- pH : approx. 6.5 (77 °F / 25 °C)  
Concentration: 10 g/l  
(aqueous suspension)
- Decomposition temperature : > 527 °F / > 275 °C
- Boiling point : Not applicable
- Flash point : Not applicable
- Evaporation rate : no data available
- Flammability (solid, gas) : Not classified as a flammability hazard
- Not expected to form explosive dust-air mixtures.
- Self-ignition : >= 752 °F / >= 400 °C  
>= 752 °F / >= 400 °C  
Method: VDI 2263 (Grewer)  
The sample was mixed 1:1 with diatomaceous earth.
- Burning number : 1
- Upper explosion limit / upper : Not applicable

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flammability limit

Lower explosion limit / Lower  
flammability limit : Not applicable

Vapour pressure : no data available

Relative vapour density : no data available

Relative density : no data available

Density : 1.9 g/cm<sup>3</sup> (77 °F / 25 °C)

Bulk density : approx. 700 kg/m<sup>3</sup> (68 °F / 20 °C)

Solubility(ies)  
Water solubility : approx. 5 g/l (77 °F / 25 °C)

Partition coefficient: n-  
octanol/water : not tested.

Auto-ignition temperature : Not applicable

Decomposition temperature : > 527 °F / > 275 °C  
Heating rate: 5 K/min  
Method: DTA  
start of decomposition

Viscosity  
Viscosity, dynamic : <= 100 mPa.s (77 °F / 25 °C)

Viscosity, kinematic : Not applicable

Explosive properties : Not explosive  
GLP: no

Oxidizing properties : The substance or mixture is not classified as oxidizing.  
Method: Expert judgement  
GLP: no

Self-heating substances : The substance or mixture is not classified as self heating.

Impact sensitivity : Not impact sensitive.

Molecular weight : no data available

Dust explosion class : see user defined free text

Metal corrosion rate : Not applicable

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Particle size :  $\leq 100 \mu\text{m}$

## SECTION 10. STABILITY AND REACTIVITY

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : The product is chemically stable.

Possibility of hazardous reactions : Contact with strong bases liberates ammonia.  
Stable

Conditions to avoid : Protect from heat/overheating.  
Alkalis

Incompatible materials : Alkalis

Hazardous decomposition products : Ammonia

## SECTION 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

Eye contact  
Skin contact  
Inhalation

### Acute toxicity

Not classified

### Product:

Acute oral toxicity : LD50 (Rat, female): 4,740 mg/kg  
Method: Other  
Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : Remarks: no data available

### Components:

#### Melamine:

Acute oral toxicity : LD50 (Rat, male and female): 3,161 - 3,828 mg/kg  
Method: Other  
GLP: No information available.  
Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : LC50 (Rat, male and female):  $> 5.19 \text{ mg/l}$   
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403

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GLP: yes

Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : Remarks: no data available

## **Skin corrosion/irritation**

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

### **Product:**

Species : Rabbit  
Exposure time : 24 h  
Assessment : No skin irritation  
Method : Other

### **Components:**

#### **Melamine:**

Species : Rabbit  
Exposure time : 4 h  
Method : OECD Test Guideline 404  
Result : No skin irritation  
GLP : yes

## **Serious eye damage/eye irritation**

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

### **Product:**

Species : rabbit eye  
Result : No eye irritation  
Exposure time : 1 h  
Method : Other

### **Components:**

#### **Melamine:**

Species : Rabbit  
Result : No eye irritation  
Method : Other  
GLP : no

## **Respiratory or skin sensitisation**

### **Skin sensitisation**

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

### **Respiratory sensitisation**

Not classified

### **Product:**

Test Type : Maximisation Test



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Species : Guinea pig  
Method : Maximisation Test  
Result : Not a skin sensitizer.

## **Components:**

### **Melamine:**

Test Type : Maximisation Test  
Exposure routes : Skin contact  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Not a skin sensitizer.  
GLP : yes

### **Germ cell mutagenicity**

Not classified

### **Product:**

Genotoxicity in vitro : Remarks: not tested.

Germ cell mutagenicity - : Not mutagenic in Ames Test  
Assessment

## **Components:**

### **Melamine:**

Genotoxicity in vitro : Test Type: Ames test  
Test system: Salmonella typhimurium  
Concentration: 50 - 5000 µg/plate  
Metabolic activation: with and without metabolic activation  
Method: Ames test  
Result: negative  
GLP: yes

Test Type: Chromosome aberration test in vitro  
Test system: Chinese hamster ovary cells  
Concentration: 240 - 300 µg/ml  
Metabolic activation: with and without metabolic activation  
Method: Other  
Result: negative  
GLP: No information available.

Test Type: In vitro gene mutation study in mammalian cells  
Test system: Chinese hamster ovary cells  
Concentration: 600 - 1000 µg/ml  
Metabolic activation: with and without metabolic activation  
Method: Other  
Result: negative  
GLP: yes

Genotoxicity in vivo : Test Type: Chromosome Aberration Test

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Species: Mouse (male and female)  
Strain: CD1  
Cell type: Bone marrow  
Application Route: oral (gavage)  
Exposure time: 1 - 2 treatments, 24 h  
Dose: 1000 - 10000 - 20000 mg/kg  
Method: Other  
Result: negative  
GLP: yes

Germ cell mutagenicity - Assessment : In vitro tests did not show mutagenic effects, In vivo tests did not show mutagenic effects

## **Carcinogenicity**

Suspected of causing cancer.

### **Components:**

#### **Melamine:**

Species : Rat, male and female  
Application Route : oral (feed)  
Exposure time : 103 w  
Control Group : yes  
Frequency of Treatment : daily  
: 126 mg/kg bw/day  
Method : Other  
Result : equivocal  
GLP : No information available.

Carcinogenicity - Assessment : Suspected human carcinogens

**IARC** Group 2B: Possibly carcinogenic to humans  
Melamine 108-78-1

**OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**NTP** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

## **Reproductive toxicity**

Suspected of damaging fertility.

### **Components:**

#### **Melamine:**

Effects on fertility : Test Type: Fertility/early embryonic development  
Species: Other  
Method: Other  
Remarks: Fertility and developmental toxicity tests did not reveal any effect on reproduction.

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Effects on foetal development : Test Type: Pre-natal  
Species: Rat, female  
Strain: wistar  
Application Route: oral (feed)  
Dose: 136, 400, 1060 mg/kg bw/day  
General Toxicity Maternal: NOAEL: 400 mg/kg body weight  
Teratogenicity: NOAEL: 1,060 mg/kg body weight  
Method: OECD Test Guideline 414  
GLP: yes

Reproductive toxicity - Assessment : Some evidence of adverse effects on sexual function and fertility, based on animal experiments.  
Embryotoxicity classification not possible from current data.

## STOT - single exposure

Not classified

### Product:

Remarks : no data available

### Components:

#### **Melamine:**

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

## STOT - repeated exposure

Not classified

### Product:

Remarks : no data available

### Components:

#### **Melamine:**

Target Organs : Urinary tract  
Assessment : May cause damage to organs through prolonged or repeated exposure.

## Repeated dose toxicity

### Product:

Remarks : not tested.

### Components:

#### **Melamine:**

Species : Rat, male and female  
NOAEL : 72 mg/kg bw/day

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Application Route : oral (feed)  
Exposure time : 13 w  
Dose : 750 - 18000 ppm nominal in die  
Control Group : yes  
Method : Repeated Dose Toxicity (subchronic study)  
GLP : No information available.  
Target Organs : Urinary system, Bladder

Application Route : Inhalation  
Remarks : This information is not available.

Application Route : Skin contact  
Remarks : This information is not available.

## **Aspiration toxicity**

Not classified

### **Product:**

no data available

### **Components:**

#### **Melamine:**

No aspiration toxicity classification

## **Experience with human exposure**

### **Product:**

General Information : The possible symptoms known are those derived from the labelling (see section 2).

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## **SECTION 12. ECOLOGICAL INFORMATION**

### **Ecotoxicity**

#### **Product:**

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 500 mg/l  
Exposure time: 96 h  
Method: Other

Toxicity to daphnia and other :  
aquatic invertebrates Remarks: no data available

Toxicity to algae/aquatic :  
plants Remarks: no data available

Toxicity to microorganisms : Remarks: no data available

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**Components:****Melamine:**

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 3,000 mg/l  
End point: mortality  
Exposure time: 96 h  
Test Type: semi-static test  
Analytical monitoring: no  
Method: Other  
GLP: no  
Remarks: The details of the toxic effect relate to the nominal concentration.
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia sp. (water flea)): 200 mg/l  
End point: Immobilization  
Exposure time: 48 h  
Test Type: static test  
Analytical monitoring: no  
Method: Regulation (EC) No. 440/2008, Annex, C.2  
GLP: yes  
Remarks: The details of the toxic effect relate to the nominal concentration.
- Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): 325 mg/l  
End point: Growth rate  
Exposure time: 96 h  
Test Type: static test  
Analytical monitoring: no data available  
Method: Other  
GLP: yes  
Remarks: The details of the toxic effect relate to the nominal concentration.
- Toxicity to fish (Chronic toxicity) : NOEC (Pimephales promelas (fathead minnow)): >= 5.1 mg/l  
End point: length of young fish  
Exposure time: 36 d  
Test Type: flow-through test  
Analytical monitoring: yes  
Method: OECD Test Guideline 210  
GLP: yes
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia sp. (water flea)): >= 11 mg/l  
End point: Reproduction rate  
Exposure time: 21 d  
Test Type: semi-static test  
Analytical monitoring: yes  
Method: OECD Test Guideline 211  
GLP: yes
- Toxicity to microorganisms : EC0 (Natural microorganism): > 100 mg/l  
Exposure time: 2 h  
Test Type: static test

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Analytical monitoring: yes

Method: Other

GLP: no

## Persistence and degradability

### Product:

Biodegradability : Remarks: Inorganic substance. Causes no biological oxygen consumption.

### Components:

#### **Melamine:**

Biodegradability : aerobic  
Inoculum: activated sludge  
Concentration: 100 mg DOC/l  
Dissolved organic carbon (DOC)  
Result: not rapidly degradable  
Biodegradation: < 10 %  
Exposure time: 28 d  
Method: OECD Test Guideline 302B  
GLP: No information available.

aerobic  
Inoculum: activated sludge  
Method: Other  
GLP: No information available.  
Remarks: The product is biodegradable after lengthy adaptation.

Physico-chemical removability : Remarks: Not readily eliminated from water.

## Bioaccumulative potential

### Product:

Bioaccumulation : Remarks: Not applicable

### Components:

#### **Melamine:**

Bioaccumulation : Species: Cyprinus carpio (Carp)  
Bioconcentration factor (BCF): 0.38 - 3.8  
Exposure time: 42 d  
Concentration: 0.2 - 2 mg/l  
Method: Other  
GLP: No information available.

Partition coefficient: n-octanol/water : log Pow: -1.22 (72 °F / 22 °C)  
pH: 8  
Method: Regulation (EC) No. 440/2008, Annex, A.8

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GLP: no

## **Mobility in soil**

### **Components:**

#### **Melamine:**

Distribution among environmental compartments : Adsorption/Soil  
Medium: water - soil  
log Koc: 1.13 - 1.51  
Method: estimated

## **Other adverse effects**

### **Product:**

Environmental fate and pathways : Remarks: not available

Additional ecological information : The ecological values have been gathered from a saturated aqueous solution.  
May contribute to eutrophication in static waters, therefore should not be released into surface waters

### **Components:**

#### **Melamine:**

Environmental fate and pathways : no data available

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## **SECTION 13. DISPOSAL CONSIDERATIONS**

### **Disposal methods**

RCRA - Resource Conservation and Recovery Act : This product, if discarded as sold, is not a Federal RCRA hazardous waste.

Waste Code : NONE

Waste from residues : Small quantities may be treated in aerobic wastewater treatment systems. Larger quantities may be incinerated or landfilled after solidification in permitted systems.

Contaminated packaging : Properly emptied, non-contaminated packaging of non-hazardous products can be supplied to a system for the collection of sales packaging.

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## **SECTION 14. TRANSPORT INFORMATION**

DOT not restricted

IATA not restricted

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**IMDG**

not restricted

## SECTION 15. REGULATORY INFORMATION

### **CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

### **SARA 304 Extremely Hazardous Substances Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

### **SARA 302 Extremely Hazardous Substances Threshold Planning Quantity**

This material does not contain any components with a section 302 EHS TPQ.

**SARA 311/312 Hazards** : Carcinogenicity  
Reproductive toxicity

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### **Clean Air Act**

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489).

### **Clean Water Act**

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

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

**TSCA** : On TSCA Inventory, All components are compliant with the TSCA Inventory Notification (Active) rule.

**DSL** : All components of this product are on the Canadian DSL

## SECTION 16. OTHER INFORMATION

### **Further information**



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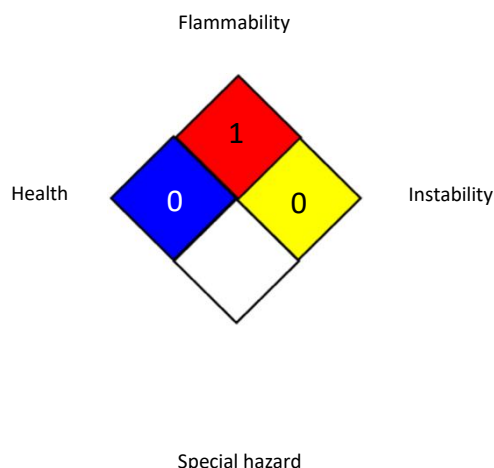
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**NFPA 704:****Full text of other abbreviations**

US WEEL : USA. Workplace Environmental Exposure Levels (WEEL)  
US WEEL / TWA : 8-hr TWA

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 Harmonised 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 Organisation; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardisation; 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 - Organisation 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-

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Not on the Chemical Weapons Convention (CWC) Toxic Chemicals and Precursors List  
None known.

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