

# **SAFETY DATA SHEET**

Version 6.14 Revision Date 05/06/2025 Print Date 05/07/2025

#### **SECTION 1. IDENTIFICATION**

#### 1.1 Product identifiers

Product name : o-Cresol

Product Number : C85700 Brand : SIGALD

Index-No. : 604-004-00-9

CAS-No. : 95-48-7

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

Identified uses : Laboratory chemicals, Synthesis of substances

Uses advised against : The product is being supplied under the TSCA R&D Exemption

(40 CFR Section 720.36). It is the recipient's responsibility to comply with the requirements of the R&D exemption. The

product may not be used for a non-exempt commercial purpose under TSCA unless appropriate consent is granted in writing by

MilliporeSigma.

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

Company : Sigma-Aldrich Inc.

3050 SPRUCE ST ST. LOUIS MO 63103 UNITED STATES

Telephone : +1 314 771-5765 Fax : +1 800 325-5052

# 1.4 Emergency telephone number

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-

527-3887 CHEMTREC (International) 24

Hours/day; 7 Days/week

### **SECTION 2. HAZARDS IDENTIFICATION**

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

Acute toxicity (Oral) : Category 3

Acute toxicity (Dermal) : Category 3

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Skin corrosion : Category 1B

Serious eye damage : Category 1

Short-term (acute) aquatic hazard

Category 2

Long-term (chronic)

aquatic hazard

: Category 3

#### Other hazards

None known.

#### **GHS label elements**

Hazard pictograms





Signal Word Danger

Hazard Statements : H301 + H311 Toxic if swallowed or in contact with skin.

H314 Causes severe skin burns and eye damage.

H401 Toxic to aquatic life.

H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements: **Prevention:** 

P260 Do not breathe dust.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this

product.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye

protection/ face protection.

Response:

P301 + P310 + P330 IF SWALLOWED: Immediately call

a POISON CENTER/ doctor. Rinse mouth.

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do

NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water/ shower.

P304 + P340 + P310 IF INHALED: Remove person to

fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor. P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.

SIGALD - C85700 Page 2 of 17 P362 Take off contaminated clothing and wash before

reuse.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved

waste disposal plant.

#### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Substance

# Components

	CAS No./Unique ID	Concentration (% w/w)	Trade secret
o-cresol	95-48-7*	>= 90 - <= 100	-

<sup>\*</sup> Indicates that the identifier is a CAS No.

Actual concentration is withheld as a trade secret

#### **SECTION 4. FIRST AID MEASURES**

General advice : First aiders need to protect themselves.

Show this material safety data sheet to the doctor in

attendance.

If inhaled : After inhalation: fresh air. Call in physician.

In case of skin contact : In case of skin contact: Take off immediately all

contaminated clothing. Rinse skin with water/ shower.

Call a physician immediately.

In case of eye contact : After eye contact: rinse out with plenty of water.

Immediately call in ophthalmologist.

Remove contact lenses.

If swallowed: give water to drink (two glasses at

most). Seek medical advice immediately. In

exceptional cases only, if medical care is not available within one hour, induce vomiting (only in persons who are wide awake and fully conscious), administer

activated charcoal (20 - 40 g in a 10% slurry) and consult a doctor as quickly as possible.

Do not attempt to neutralise.

Most important : The mosymptoms and effects, describ

both acute and delayed

: The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in

section 11

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Protection of first-aiders : For personal protection see section 8.

Notes to physician : No data available

### **SECTION 5. FIRE-FIGHTING MEASURES**

Suitable extinguishing

media

: Water Foam

Carbon dioxide (CO2)

Dry powder

Unsuitable extinguishing

media

For this substance/mixture no limitations of

extinguishing agents are given.

Specific hazards during

fire fighting

: Combustible.

Vapors are heavier than air and may spread along

floors.

Forms explosive mixtures with air on intense heating.

Development of hazardous combustion gases or

vapours possible in the event of fire.

Hazardous combustion

products

: Carbon oxides

Specific extinguishing

methods

: No data available

Further information : Remove container from danger zone and cool with

water.

Prevent fire extinguishing water from contaminating

surface water or the ground water system.

Special protective equipment for fire-

fighters

: Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

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#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures : Advice for non-emergency personnel:

Avoid generation and inhalation of dusts in all

circumstances.

Avoid substance contact. Ensure adequate ventilation.

Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency

procedures, consult an expert. Advice for emergency responders: For personal protection see section 8.

Environmental precautions

: Do not let product enter drains.

Methods and materials for containment and

cleaning up

: Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7

and 10).

Take up carefully. Dispose of properly. Clean up

affected area.

Avoid generation of dusts.

#### **SECTION 7. HANDLING AND STORAGE**

For precautions see section 2.2.

Advice on protection against fire and explosion

Keep away from open flames, hot surfaces and

sources of ignition.

Take precautionary measures against static discharge.

Further information on storage conditions

: Tightly closed.

Dry.

Keep in a well-ventilated place.

Keep locked up or in an area accessible only to

qualified or authorized persons.

Storage class : 6.1A, Combustible, acute toxic Cat. 1 and 2 / very

toxic hazardous materials

Recommended storage

temperature

: Recommended storage temperature see product label.

Further information on

storage stability

: Air and light sensitive.

Packaging material : Suitable material: Amber Glass Bottle/Jar, Sure-Seal

Bottles

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

# Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
o-cresol	95-48-7	TWA	2.3 ppm 10 mg/m3	NIOSH REL
		TWA	5 ppm 22 mg/m3	OSHA Z-1
		TWA (Inhalable fraction and vapor)	20 mg/m3	ACGIH

**Engineering measures** : No data available

# **Personal protective equipment**

Respiratory protection : required when dusts/vapours/aerosols are generated.

Our recommendations on filtering respiratory

protection are based on the following standards: DIN

EN 143, DIN 14387 and other accompanying

standards relating to the used respiratory protection

system.

Recommended Filter

type:

: Filter A-(P3)

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

Hand protection

Material : Chloroprene
Break through time : 480 min
Glove thickness : 0.65 mm
Protective index : Full contact

Manufacturer : KCL 720 Camapren®

Material : Latex gloves
Break through time : 60 min
Glove thickness : 0.6 mm

Protective index : Splash contact

Manufacturer : Lapren® (KCL 706 / Aldrich Z677558, Size M)

Remarks : This recommendation applies only to the product

stated in the safety data sheet, supplied by us and

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for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Eye protection : Use equipment for eye protection tested and

approved under appropriate government standards

such as NIOSH (US) or EN 166(EU).

Tightly fitting safety goggles

Skin and body protection : Flame retardant antistatic protective clothing.

Hygiene measures : Immediately change contaminated clothing. Apply

preventive skin protection. Wash hands and face

after working with substance.

# **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : powder

Color : white

Odor : No data available

Odor Threshold : No data available

pH : 4.5

Concentration: 25.00000 g/l

Melting point/ range :  $84 - 88 \, ^{\circ}\text{F} / 29 - 31 \, ^{\circ}\text{C}$ 

Method: lit.

Boiling point/boiling range : 376 °F / 191 °C

Method: lit.

Flash point : 177.8 °F / 81.0 °C

Method: closed cup

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Flammability (liquids) : No data available

Burning rate : No data available

Self-ignition : 1110.2 °F / 599.0 °C

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Upper explosion limit / : 58 %(V)

Upper flammability limit (298.4 °F / 148.0 °C)

Lower explosion limit / : 1.3 %(V)

Lower flammability limit

Vapor pressure : 3.1 hPa (140.0 °F / 60.0 °C)

1.3 hPa (100.8 °F / 38.2 °C)

0.4 hPa (68.0 °F / 20.0 °C)

Relative vapor density : No data available

Relative density : No data available

Density : 1.05 g/cm3 (68.00 °F / 20.00 °C)

Solubility(ies)

Water solubility : 25 g/l (68 °F / 20 °C)

Partition coefficient: n-

octanol/water

: No data available

Autoignition temperature : 1110 °F / 599 °C

Decomposition temperature

: No data available

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Flow time : No data available

Explosive properties : Not classified as explosive.

Oxidizing properties : none

Molecular weight : 108.14 g/mol

Particle characteristics

Particle size : No data available

### **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : Forms explosive mixtures with air on intense heating.

A range from approx. 15 Kelvin below the flash point

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is to be rated as critical.

The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion

potential may generally be assumed.

: The product is chemically stable under standard Chemical stability

ambient conditions (room temperature).

Possibility of hazardous

reactions

: Violent reactions possible with:

Strong oxidizing agents

Nitric acid

fuming sulfuric acid

Conditions to avoid : Strong heating.

Incompatible materials : Aluminum

Strong oxidizing agents

products

Hazardous decomposition : In the event of fire: see section 5

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

# 11.1 Information on toxicological effects

# **Acute toxicity**

LD50 Oral - Rat - 121.0 mg/kg

Remarks: Behavioral: Convulsions or effect on seizure threshold.

Lungs, Thorax, or Respiration: Dyspnea.

Gastrointestinal: Ulceration or bleeding from stomach.

Symptoms: If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach.

Symptoms: mucosal irritations, Cough, Shortness of breath, Possible damages:, damage of

respiratory tract

Inhalation: Corrosive to respiratory system.

LD50 Dermal - Rat - 620.0 mg/kg

Remarks: (RTECS)

### Skin corrosion/irritation

Remarks: Causes skin burns.

Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

### Serious eye damage/eye irritation

Remarks: Causes serious eye damage.

Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

#### Respiratory or skin sensitization

No data available

#### Germ cell mutagenicity

Test Type: Ames test

Test system: Salmonella typhimurium

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Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Test Type: In vitro mammalian cell gene mutation test

Test system: mouse lymphoma cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

Test Type: Chromosome aberration test in vitro Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: positive

# Carcinogenicity

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No ingredient of this product present at levels greater than or equal to 0.1% is

identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is

on OSHA's list of regulated carcinogens.

### Reproductive toxicity

No data available

# Specific target organ toxicity - single exposure

No data available

# Specific target organ toxicity - repeated exposure

No data available

# **Aspiration hazard**

No data available

#### 11.2 Additional Information

Repeated dose toxicity - Rat - male and female - Oral - 13 Weeks - NOAEL (No observed adverse effect level) - 50 mg/kg

Remarks: (ECHA)

RTECS: GO6300000

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting, Central nervous system depression, Diarrhea, Gastrointestinal disturbance

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Systemic effects:

Headache Nausea Vomiting

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Dizziness agitation, spasms cardiovascular disorders

After absorption:

Damage to:

Central nervous system

Liver Kidney

Other dangerous properties can not be excluded.

This substance should be handled with particular care.

Stomach - Irregularities - Based on Human Evidence

Stomach - Irregularities - Based on Human Evidence

#### **SECTION 12. ECOLOGICAL INFORMATION**

### **Ecotoxicity**

### **Components:**

o-cresol:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 8.4

mg/l

Exposure time: 96 h

Remarks: (ECOTOX Database)

Toxicity to daphnia and

other aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 15.7 mg/l

End point: mortality Exposure time: 48 h Test Type: static test Remarks: (ECHA)

The value is given in analogy to the following

substances: p-cresol

NOEC (Daphnia): 1 mg/l End point: mortality Exposure time: 21 d Test Type: semi-static test

Remarks: The value is given in analogy to the

following substances:

Toxicity to algae/aquatic

plants

: ErC50 (SELENASTRUM): 100.00 mg/l

Exposure time: 96 h

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Test Type: static test Remarks: (ECHA)

Toxicity to : EC50 (Photobacterium phosphoreum): 32 mg/l

microorganisms Exposure time: 30 min

Remarks: (IUCLID)

# **Ecotoxicology Assessment**

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

# Persistence and degradability

# **Components:**

#### o-cresol:

Biodegradability : aerobic

Inoculum: activated sludge Result: Inherently biodegradable.

Biodegradation: 100 % Exposure time: 7 d

Method: OECD Test Guideline 302B

ThOD : 2,520 mg/g

Remarks: (Lit.)

BOD/ThOD : 65 %

Remarks: (Lit.)

# **Bioaccumulative potential**

### **Components:**

### o-cresol:

Bioaccumulation : Species: Danio rerio (zebra fish)

Bioconcentration factor (BCF): 10.7 Method: OECD Test Guideline 305

### Mobility in soil

No data available

# Other adverse effects

#### **Product:**

Ozone-Depletion Potential: Regulation: 40 CFR Protection of Environment; Part

82 Protection of Stratospheric Ozone - CAA Section

602 Class I Substances

Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR

82, Subpt. A, App.A + B).

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### **Components:**

#### o-cresol:

Results of PBT and vPvB

assessment

: Substance does not meet the criteria for PBT or  $\ensuremath{\text{VPVB}}$ 

according to Regulation (EC) No 1907/2006, Annex

XIII.

Additional ecological

information

: Biological effects:

Hazard for drinking water supplies.

Change in the flavour characteristics of fish protein.

Discharge into the environment must be avoided.

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

# **Disposal methods**

Waste from residues : Waste material must be disposed of in accordance

with the national and local regulations. Leave

chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product

itself.

### **SECTION 14. TRANSPORT INFORMATION**

### **International Regulations**

IATA-DGR

UN/ID No. : UN 3455
Proper shipping name : Cresols, solid

Class : 6.1 Subsidiary risk : 8 Packing group : II

Labels : Division 6.1 - Toxic substances, Class 8 - Corrosive

substances

Packing instruction (cargo: 675

aircraft)

Packing instruction : 668

(passenger aircraft)

IMDG-Code

UN number : UN 3455

Proper shipping name : CRESOLS, SOLID

Class : 6.1
Subsidiary risk : 8
Packing group : II
Labels : 6.1

Labels : 6.1 (8) EmS Code : F-A, S-B

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Marine pollutant : no

### Transport in bulk according to IMO instruments

Not applicable for product as supplied.

### **National regulation**

### 49 CFR Road

UN/ID/NA number : UN 3455
Proper shipping name : Cresols, solid

Class : 6.1 Subsidiary risk : 8 Packing group : II

Labels : Division 6.1 - Toxic substances, Class 8 - Corrosive

substances

ERG Code : 153 Marine pollutant : no

Poison Inhalation Hazard : No

# **Special precautions for user**

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

#### **SECTION 15. REGULATORY INFORMATION**

# **CERCLA Reportable Quantity**

Components	CAS-No.	Component	Calculated product
		RQ (lbs)	RQ (lbs)
o-cresol	95-48-7	100	100
o-cresol	95-48-7	100	100 (D023)

### SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
o-cresol	95-48-7	100	100

### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

Components	CAS-No.	Component TPQ (lbs)
o-cresol	95-48-7	10000
o-cresol	95-48-7	1000*

<sup>\*:</sup> Solid in the molten or powdered form (particles < 100 microns), in solution, or meeting the NFPA reactivity criteria

SARA 311/312 : Acute Health Hazard Hazards : Chronic Health Hazard

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#### **SARA 313**

: The following components are subject to reporting levels established by SARA Title III, Section 313:

o-cresol 95-48-7 >= 90 - <= 100 %

#### Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B). The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 112 (40 CFR 61):

o-cresol 95-48-7 >= 90 - <= 100 %

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).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

o-cresol 95-48-7 >= 90 - <= 100 %

#### **Clean Water Act**

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

o-cresol 95-48-7 >= 90 - <= 100 %

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

# **US State Regulations**

# **Massachusetts Right To Know**

o-cresol 95-48-7

Pennsylvania Right To Know

o-cresol 95-48-7

# **Maine Chemicals of High Concern**

Product does not contain any listed chemicals

# **Vermont Chemicals of High Concern**

Product does not contain any listed chemicals

# **Washington Chemicals of High Concern**

Product does not contain any listed chemicals

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

TSCA : All substances listed as active on the TSCA inventory

### **TSCA list**

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

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#### **SECTION 16. OTHER INFORMATION**

ACGIH / TWA

#### Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL : USA. NIOSH Recommended Exposure Limits

OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-

1 Limits for Air Contaminants8-hour, time-weighted average

NIOSH REL / TWA : Time-weighted average concentration for up to a 10-

hour workday during a 40-hour workweek

OSHA Z-1 / TWA : 8-hour time weighted average

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-Decomposition SARA Accelerating Temperature; Superfund Amendments 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

The information is believed to be correct but is not exhaustive and will be used solely as a guideline, which is based on current knowledge of the chemical substance or mixture and is applicable to appropriate safety precautions for the product. It does not represent any

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