# **SAFETY DATA SHEET**

Version 6.0 Revision Date 05/28/2017 Print Date 08/08/2019

### 1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Xylenes

Product Number : 247642 Brand : SIGALD

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

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.

3050 Spruce Street ST. LOUIS MO 63103 UNITED STATES

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

1.4 Emergency telephone number

Emergency Phone # : +1-703-527-3887

## 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquids (Category 3), H226

Acute toxicity, Inhalation (Category 4), H332

Skin irritation (Category 2), H315

Eye irritation (Category 2A), H319

Carcinogenicity (Category 2), H351

Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

Specific target organ toxicity - repeated exposure (Category 2), H373

Specific target organ toxicity - repeated exposure, Inhalation (Category 2), Central nervous system, Liver, Kidney,

H373

Aspiration hazard (Category 1), H304 Acute aquatic toxicity (Category 2), H401 Chronic aquatic toxicity (Category 3), H412

For the full text of the H-Statements mentioned in this Section, see Section 16.

### 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word Danger

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| Hazard statement(s)        |   |
|----------------------------|---|
| H226                       | Flammable liquid and vapour.  |
| H304                       | May be fatal if swallowed and enters airways.                                 |
| H315                       | Causes skin irritation.   |
| H319                       | Causes serious eye irritation.  |
| H332                       | Harmful if inhaled.   |
| H335                       | May cause respiratory irritation.   |
| H351                       | Suspected of causing cancer.  |
| H373                       | May cause damage to organs through prolonged or repeated exposure.            |
| H373                       | May cause damage to organs (/\$/*_2ORG_REP_INH/\$/) through                   |
|                            | prolonged or repeated exposure if inhaled.                                    |
| H401                       | Toxic to aquatic life.  |
| H412                       | Harmful to aquatic life with long lasting effects.                            |
| Precautionary statement(s) |   |
| P201                       | Obtain special instructions before use.                                       |
| P202                       | Do not handle until all safety precautions have been read and                 |
|                            | understood.   |
| P210                       | Keep away from heat/sparks/open flames/hot surfaces. No smoking.              |
| P233                       | Keep container tightly closed.  |
| P240                       | Ground/bond container and receiving equipment.                                |
| P241                       | Use explosion-proof electrical/ ventilating/ lighting/ equipment.             |
| P242                       | Use only non-sparking tools.  |
| P243                       | Take precautionary measures against static discharge.                         |
| P260                       | Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.                         |
| P264                       | Wash skin thoroughly after handling.  |
| P271                       | Use only outdoors or in a well-ventilated area.                               |
| P273                       | Avoid release to the environment.   |
| P280                       | Wear protective gloves/ protective clothing/ eye protection/ face protection. |
| P301 + P310                | IF SWALLOWED: Immediately call a POISON CENTER/doctor.                        |
| P303 + P361 + P353         | IF ON SKIN (or hair): Take off immediately all contaminated clothing.         |
| F 303 + F 301 + F 333      | Rinse skin with water/shower.   |
| P304 + P340 + P312         | IF INHALED: Remove person to fresh air and keep comfortable for               |
| 1 001 1 1 0 10 1 1 0 12    | breathing. Call a POISON CENTER/doctor if you feel unwell.                    |
| P305 + P351 + P338         | IF IN EYES: Rinse cautiously with water for several minutes. Remove           |
| 1 000 1 1 001 1 1 000      | contact lenses, if present and easy to do. Continue rinsing.                  |
| P308 + P313                | IF exposed or concerned: Get medical advice/ attention.                       |
| P331                       | Do NOT induce vomiting.   |
| P332 + P313                | If skin irritation occurs: Get medical advice/ attention.                     |
| P337 + P313                | If eye irritation persists: Get medical advice/ attention.                    |
| P362                       | Take off contaminated clothing and wash before reuse.                         |
| P370 + P378                | In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to      |
|                            | extinguish.   |
| P403 + P233                | Store in a well-ventilated place. Keep container tightly closed.              |
| P403 + P235                | Store in a well-ventilated place. Keep cool.                                  |
| P405                       | Store locked up.  |
| P501                       | Dispose of contents/ container to an approved waste disposal plant.           |
|                            | ,   |

# 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

## 3.2 Mixtures

Synonyms : Xylene mixture of isomers

Formula : C<sub>8</sub>H<sub>10</sub>
Molecular weight : 106.17 g/mol

# **Hazardous components**

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| Component    |              | Classification                 | Concentration  |
|--------------|--------------|--------------------------------|----------------|
| Xylene       |              |                                |                |
| CAS-No.      | 1330-20-7    | Flam. Liq. 3; Acute Tox. 4;    | >= 90 - <= 100 |
| EC-No.       | 215-535-7    | Skin Irrit. 2; STOT SE 3; STOT | %              |
| Index-No.    | 601-022-00-9 | RE 2; Asp. Tox. 1; Aquatic     |                |
|              |              | Acute 2; H226, H304, H315,     |                |
|              |              | H332, H335, H373, H401         |                |
| Ethylbenzene |              |                                |                |
| CAS-No.      | 100-41-4     | Flam. Liq. 2; Acute Tox. 4;    | >= 20 - < 30 % |
| EC-No.       | 202-849-4    | Carc. 2; STOT RE 2; Asp.       |                |
| Index-No.    | 601-023-00-4 | Tox. 1; Aquatic Acute 2;       |                |
|              |              | Aquatic Chronic 3; H225,       |                |
|              |              | H304, H332, H351, H373,        |                |
|              |              | H401, H412, H225, H304,        |                |
|              |              | H332, H351, H373, H401         |                |

For the full text of the H-Statements mentioned in this Section, see Section 16.

### 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

### If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

## 4.2 Most important symptoms and effects, 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

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

No data available

### 5. FIREFIGHTING MEASURES

## 5.1 Extinguishing media

## Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

## 5.2 Special hazards arising from the substance or mixture

Carbon oxides

### 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

## 5.4 Further information

Use water spray to cool unopened containers.

## 6. ACCIDENTAL RELEASE MEASURES

## 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

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For personal protection see section 8.

## 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

## 6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

## 6.4 Reference to other sections

For disposal see section 13.

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. For precautions see section 2.2.

## 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## 8.1 Control parameters

Components with workplace control parameters

| Component | CAS-No.   | Value  | Control parameters                       | Basis  |  |
|-----------|-----------|--|--|--|--|
| Xylene    | 1330-20-7 | TWA  | 100.000000<br>ppm                        | USA. ACGIH Threshold Limit Values (TLV)  |  |
|           | Remarks   | Central Nerv   | r Respiratory Trac<br>yous System impa   |  |  |
|           |           | (see BEI® s  |  |  |  |
|           |           | STEL   | 150.000000<br>ppm                        | USA. ACGIH Threshold Limit Values (TLV)  |  |
|           |           | Eye & Upper Respiratory Tract irritation Central Nervous System impairment Substances for which there is a Biological Exposure Index or Indice (see BEI® section) Not classifiable as a human carcinogen |  |  |  |
|           |           | TWA  | 100.000000<br>ppm<br>435.000000<br>mg/m3 | USA. Occupational Exposure Limits<br>(OSHA) - Table Z-1 Limits for Air<br>Contaminants |  |
|           |           | The value in   | mg/m3 is approxi                         | mate.  |  |
|           |           | TWA  | 100.000000<br>ppm<br>435.000000<br>mg/m3 | USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants       |  |
|           |           | The value in mg/m3 is approximate.   |  |  |  |
|           |           | TWA  | 100.000000<br>ppm                        | USA. ACGIH Threshold Limit Values (TLV)  |  |
|           |           | Central Nervous System impairment  |  |  |  |

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|              |  | Upper Respiratory Tract irritation Eye irritation Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Not classifiable as a human carcinogen                              |                              |   |
|--------------|--|---|------------------------------|---|
|              |  | STEL  | 150.000000<br>ppm            | USA. ACGIH Threshold Limit Values (TLV)   |
|              |  | Central Nervous System impairment Upper Respiratory Tract irritation Eye irritation Substances for which there is a Biological Exposure Index or India (see BEI® section)                                     |                              |   |
|              |  | TWA   | ble as a human ca<br>100 ppm | USA. ACGIH Threshold Limit Values (TLV)   |
|              |  | Central Nervous System impairment Upper Respiratory Tract irritation Eye irritation Substances for which there is a Biological Exposure Index or II (see BEI® section)  |                              |   |
|              |  | STEL  | ble as a human ca<br>150 ppm | USA. ACGIH Threshold Limit Values (TLV)   |
|              |  | Central Nervous System impairment Upper Respiratory Tract irritation Eye irritation Substances for which there is a Biological Exposure Index or II (see BEI® section) Not classifiable as a human carcinogen |                              |   |
|              |  | TWA   | 100 ppm<br>435 mg/m3         | USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants          |
|              |  | The value in  | mg/m3 is approx              |   |
| Ethylbenzene | 100-41-4   | TWA   | 20.000000 ppm                | USA. ACGIH Threshold Limit Values (TLV)   |
|              |  |   |                              | ion<br>a Biological Exposure Index or Indices   |
|              |  |   | ppm                          | <u> </u>  |
|              | Central Nervous System impairment Upper Respiratory Tract irritation Eye irritation Adopted values or notations enclosed are those are proposed in the NIC See Notice of Intended Changes (NIC) Substances for which there is a Biological Expo (see BEI® section) Confirmed animal carcinogen with unknown rele |   |                              | ion Inclosed are those for which changes ges (NIC) a Biological Exposure Index or Indices |

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| TWA   | 100.000000<br>ppm<br>435.000000<br>mg/m3 | USA. NIOSH Recommended Exposure Limits   |
|---|--|--|
| ST  | 125.000000<br>ppm<br>545.000000<br>mg/m3 | USA. NIOSH Recommended Exposure Limits   |
| TWA   | 100.000000<br>ppm<br>435.000000<br>mg/m3 | USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants |
| The value in  | mg/m3 is approxi                         | mate.  |
| TWA   | 20 ppm                                   | USA. ACGIH Threshold Limit Values (TLV)  |
| Cochlear impair Kidney damage (nephropathy) Upper Respiratory Tract irritation Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Confirmed animal carcinogen with unknown relevance to humans |  |  |
| TWA   | 100 ppm<br>435 mg/m3                     | USA. NIOSH Recommended Exposure Limits   |
| ST  | 125 ppm<br>545 mg/m3                     | USA. NIOSH Recommended Exposure Limits   |
| TWA   | 100 ppm<br>435 mg/m3                     | USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants |
| The value in mg/m3 is approximate.  |  |  |
| TWA   | 100 ppm<br>435 mg/m3                     | USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000                    |
| STEL  | 125 ppm<br>545 mg/m3                     | USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000                    |

Biological occupational exposure limits

| Component    | CAS-No.   | Parameters   | Value                 | Biological specimen   | Basis   |
|--------------|-----------|--|-----------------------|-----------------------|---|
| Xylene       | 1330-20-7 | Methylhippuri c acids                                    | 1,500.000<br>0 mg/g   | Urine                 | ACGIH - Biological<br>Exposure Indices<br>(BEI) |
|              | Remarks   | End of shift (As   | s soon as po          | ssible after exposure | e ceases)                                       |
|              |           | Methylhippuri<br>c acids                                 | 1,500.000<br>0 mg/g   | Urine                 | ACGIH - Biological<br>Exposure Indices<br>(BEI) |
|              |           | End of shift (As   | s soon as po          | ssible after exposure | e ceases)                                       |
| Ethylbenzene | 100-41-4  | Sum of<br>mandelic acid<br>and phenyl<br>glyoxylic acid  | 0.7g/g<br>creatinine  | Urine                 | ACGIH - Biological<br>Exposure Indices<br>(BEI) |
|              |           | End of shift at end of workweek                          |                       |                       |   |
|              |           | Ethylbenzene   |                       | In end-exhaled air    | ACGIH - Biological<br>Exposure Indices<br>(BEI) |
|              |           | Not critical   |                       |                       |   |
|              |           | Sum of<br>mandelic acid<br>and phenyl<br>glyoxylic acid  | 0.15g/g<br>creatinine | Urine                 | ACGIH - Biological<br>Exposure Indices<br>(BEI) |
|              |           | End of shift (As soon as possible after exposure ceases) |                       |                       |   |

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#### 8.2 **Exposure controls**

### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of

## Personal protective equipment

## Eve/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact

Material: Fluorinated rubber Minimum layer thickness: 0.7 mm Break through time: 480 min

Material tested: Vitoiect® (KCL 890 / Aldrich Z677698. Size M)

Splash contact

Material: Fluorinated rubber Minimum layer thickness: 0.7 mm Break through time: 480 min

Material tested: Vitoject® (KCL 890 / Aldrich Z677698, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industria situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

## **Body Protection**

Complete suit protecting against chemicals. Flame retardant antistatic protective clothing.. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use (US) or type ABEK (EN 14387) respirator cartridges as a backup to enginee protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties

a) Appearance Form: clear, liquid Colour: colourless

b) Odour No data available c) Odour Threshold No data available d) рH No data available

Melting point/freezing

< 0 °C (< 32 °F)

point

Initial boiling point and

137 - 140 °C (279 - 284 °F) - lit.

boiling range

25 °C (77 °F) - closed cup g) Flash point

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**Evaporation rate** No data available h) i) Flammability (solid, gas) No data available

Upper/lower Upper explosion limit: 7 %(V) i) flammability or Lower explosion limit: 1.1 %(V)

explosive limits

24 hPa at 37.70 °C (99.86 °F) Vapour pressure

I) Vapour density 3.67 - (Air = 1.0)

m) Relative density 0.86 g/mL at 25 °C (77 °F)

n) Water solubility No data available Partition coefficient: n-No data available

octanol/water

Auto-ignition

No data available temperature

Decomposition temperature

No data available

r) Viscosity No data available No data available s) Explosive properties Oxidizing properties No data available

9.2 Other safety information

> Relative vapour density 3.67 - (Air = 1.0)

## 10. STABILITY AND REACTIVITY

#### 10.1 Reactivity

No data available

## 10.2 Chemical stability

Stable under recommended storage conditions.

#### 10.3 Possibility of hazardous reactions

Vapours may form explosive mixture with air.

### 10.4 Conditions to avoid

Heat, flames and sparks.

#### 10.5 Incompatible materials

Strong oxidizing agents

#### Hazardous decomposition products 10.6

Hazardous decomposition products formed under fire conditions. - Carbon oxides

Other decomposition products - No data available

In the event of fire: see section 5

## 11. TOXICOLOGICAL INFORMATION

## Information on toxicological effects

# **Acute toxicity**

No data available

Inhalation: No data available Dermal: No data available

No data available

### Skin corrosion/irritation

No data available

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## Serious eye damage/eye irritation

No data available

## Respiratory or skin sensitisation

No data available

## Germ cell mutagenicity

No data available

## Carcinogenicity

IARC: 2B - Group 2B: Possibly carcinogenic to humans (Ethylbenzene)

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.

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

carcinogen or potential carcinogen by OSHA.

## Reproductive toxicity

No data available 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

### **Additional Information**

RTECS: Not available

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

Stomach - Irregularities - Based on Human Evidence

## 12. ECOLOGICAL INFORMATION

## 12.1 Toxicity

No data available

### 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulative potential

No data available

## 12.4 Mobility in soil

No data available

## 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

## 12.6 Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life.

## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

### **Product**

Burn in a chemical incinerator equipped with an afterburner and scrubber b highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

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## Contaminated packaging

Dispose of as unused product.

### 14. TRANSPORT INFORMATION

DOT (US)

UN number: 1307 Class: 3 Packing group: III

Proper shipping name: Xylenes

Reportable Quantity (RQ) 100 lbs

Poison Inhalation Hazard: No

**IMDG** 

UN number: 1307 Class: 3 Packing group: III EMS-No: F-E, S-D

Proper shipping name: XYLENES

IATA

UN number: 1307 Packing group: III Class: 3

Proper shipping name: Xylenes

## 15. REGULATORY INFORMATION

### **SARA 302 Components**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

## **SARA 313 Components**

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

CAS-No. **Revision Date** 2007-07-01 Ethylbenzene 100-41-4 1330-20-7 1993-04-24 **Xylene** 

### SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

## **Massachusetts Right To Know Components**

## Pennsylvania Right To Know Components

| , ,          | CAS-No.   | <b>Revision Date</b> |
|--------------|-----------|----------------------|
| Xylene       | 1330-20-7 | 1993-04-24           |
| Ethylbenzene | 100-41-4  | 2007-07-01           |

## **New Jersey Right To Know Components**

|           | •   | • | • |           |                      |
|-----------|-----|---|---|-----------|----------------------|
|           |     |   |   | CAS-No.   | <b>Revision Date</b> |
| Xylene    |     |   |   | 1330-20-7 | 1993-04-24           |
| Ethylbenz | ene |   |   | 100-41-4  | 2007-07-01           |

## California Prop. 65 Components

| WARNING! This product contains a chemical known to the | CAS-No.  | Revision Date |
|--|----------|---------------|
| State of California to cause cancer.                   | 100-41-4 | 2007-09-28    |
| Cthydhonzono   |          |               |

# Ethylbenzene

## **16. OTHER INFORMATION**

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

Acute Tox. Acute toxicity

SIGALD- 247642 Page 10 of 11 Aquatic Acute
Aquatic Chronic
Asp. Tox.
Carc.
Flam. Lig.
Acute aquatic toxicity
Chronic aquatic toxicity
Aspiration hazard
Carcinogenicity
Flammable liquids

H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation. H351 Suspected of causing cancer.

H373 May cause damage to organs through prolonged or repeated exposure.

H373 May cause damage to organs through prolonged or repeated exposure if inhaled. H373 May cause damage to organs (/\$/\*\_2ORG\_REP\_INH/\$/) through prolonged or

repeated exposure if inhaled.

H401 Toxic to aquatic life.

H412 Harmful to aquatic life with long lasting effects.

Skin Irrit. Skin irritation

STOT RE Specific target organ toxicity - repeated exposure STOT SE Specific target organ toxicity - single exposure

### **HMIS Rating**

Health hazard: 2
Chronic Health Hazard: \*
Flammability: 3
Physical Hazard 0

### **NFPA Rating**

Health hazard: 2
Fire Hazard: 3
Reactivity Hazard: 0

### **Further information**

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### **Preparation Information**

Sigma-Aldrich Corporation Product Safety – Americas Region 1-800-521-8956

Version: 6.0 Revision Date: 05/28/2017 Print Date: 08/08/2019

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