## 1. Identification

| | |
|---|---|
| **Product identifier** | **METAL REPAIR PASTE FAST CURE PART B** |
| **Other means of identification** | None. |
| **Recommended use** | Not available. |
| **Recommended restrictions** | None known. |

**Manufacturer/Importer/Supplier/Distributor information**

| | |
|---|---|
| | RR&C |
| **Address** | P.O. Box 67000<br>Detroit, MI 48267-2791 |
| **Hours of Operation** | 8:00 a.m. - 5:00 p.m. |
| **Telephone Number** | 1-216-515-7712 |
| **CHEMTREC** | 1-800-424-9300 |

## 2. Hazard(s) identification

| | | |
|---|---|---|
| **Physical hazards** | Not classified. | |
| **Health hazards** | Skin corrosion/irritation | Category 1 |
| | Serious eye damage/eye irritation | Category 1 |
| | Sensitization, skin | Category 1 |
| | Germ cell mutagenicity | Category 2 |
| | Specific target organ toxicity, repeated exposure | Category 2 |
| **Environmental hazards** | Not classified. | |
| **OSHA defined hazards** | Not classified. | |

*Hazards not stated here are "Not classified", "Not applicable" or "Classification not possible".

**Label elements**

| | |
|---|---|
| **Signal word** | Danger |
| **Hazard statement** | Causes severe skin burns and eye damage. May cause an allergic skin reaction. Causes serious eye damage. Suspected of causing genetic defects. May cause damage to organs through prolonged or repeated exposure. |

**Precautionary statement**

| | |
|---|---|
| **Prevention** | Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. |
| **Response** | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Specific treatment see Section 4 of this SDS. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. |
| **Storage** | Store locked up. |
| **Disposal** | Dispose of contents/container in accordance with local/regional/national/international regulations. |

| | |
|---|---|
| **Hazard(s) not otherwise classified (HNOC)** | None known. |
| **Supplemental information** | None. |

## 3. Composition/information on ingredients

**Mixtures**

| Chemical name | Common name and synonyms | CAS number | % |
|---|---|---|---|
| 2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL | | 90-72-2 | 1 - 10 |
| 3-AMINOPROPYLTRIETHOXYSILANE | | 919-30-2 | 1 - 10 |
| PHENOL | | 108-95-2 | 1 - 10 |
| QUARTZ | | 14808-60-7 | 1 - 10 |
| TRIETHYLENETETRAMINE | | 112-24-3 | 1 - 10 |
| ETHANOL | | 64-17-5 | 0.1 |

## 4. First-aid measures

**Inhalation** Move to fresh air. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Call a physician or poison control center immediately.

**Skin contact** Immediately flush skin with plenty of water. Remove contaminated clothing. Get medical attention immediately. Wash clothing separately before reuse.

**Eye contact** Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

**Ingestion** Rinse mouth. Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. Get medical attention.

**Most important symptoms/effects, acute and delayed** Causes serious eye damage. Burning pain and severe corrosive skin damage. Contact may cause redness, burning, drying, and cracking of the skin, and skin damage. May cause allergic skin reaction. Dermatitis. Rash.

**Indication of immediate medical attention and special treatment needed** In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

**General information** In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

## 5. Fire-fighting measures

**Suitable extinguishing media** Water. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

**Unsuitable extinguishing media** Do not use a solid water stream as it may scatter and spread fire.

**Specific hazards arising from the chemical** Fire may produce irritating, corrosive and/or toxic gases.

**Special protective equipment and precautions for firefighters** Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Structural firefighters protective clothing will only provide limited protection.

**Fire fighting equipment/instructions** Water runoff can cause environmental damage. Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

**Specific methods** Use water spray to cool unopened containers.

## 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures** Keep people away from and upwind of spill/leak. Keep out of low areas. Ventilate closed spaces before entering them. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid breathing mist/vapors. Ensure adequate ventilation.

**Methods and materials for containment and cleaning up**

Extinguish all flames in the vicinity.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Collect spillage. Following product recovery, flush area with water. Prevent product from entering drains. Do not allow material to contaminate ground water system.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use.

**Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not contaminate water.

## 7. Handling and storage

**Precautions for safe handling**

Wear appropriate personal protective equipment. Avoid eating, drinking and smoking when using the product. Wash hands after handling. Observe good industrial hygiene practices. Avoid contact with eyes, skin, and clothing. Do not breathe mist or vapor. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site. Keep away from heat, sparks and open flame. Provide good ventilation. Use non-sparking tools and explosion-proof equipment. Remove and wash contaminated clothing promptly. Do not empty into drains. Wash hands thoroughly after handling.

**Conditions for safe storage, including any incompatibilities**

Store locked up. Do not store this material in open or unlabeled containers. Store in a cool, dry place out of direct sunlight. Keep container in a well-ventilated place.

## 8. Exposure controls/personal protection

**Occupational exposure limits**

**US. OSHA Table Z-1 Permissible Exposure Limits (PEL) for Air Contaminants (29 CFR 1910.1000)**

| Components | Type | Value | Form |
|---|---|---|---|
| ETHANOL (CAS 64-17-5) | PEL | 1900 mg/m3 | |
| | | 1000 ppm | |
| PHENOL (CAS 108-95-2) | PEL | 19 mg/m3 | |
| | | 5 ppm | |
| QUARTZ (CAS 14808-60-7) | PEL | 0.05 mg/m3 | Respirable dust. |

**US. OSHA Table Z-3 Permissible Exposure Limits (PEL) for Mineral Dusts (29 CFR 1910.1000)**

| Components | Type | Value | Form |
|---|---|---|---|
| QUARTZ (CAS 14808-60-7) | TWA | 0.1 mg/m3 | Respirable. |
| | | 2.4 mppcf | Respirable. |

**US. ACGIH Threshold Limit Values (TLV)**

| Components | Type | Value | Form |
|---|---|---|---|
| ETHANOL (CAS 64-17-5) | STEL | 1000 ppm | |
| PHENOL (CAS 108-95-2) | TWA | 5 ppm | |
| QUARTZ (CAS 14808-60-7) | TWA | 0.025 mg/m3 | Respirable fraction. |

**NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended**

| Components | Type | Value |
|---|---|---|
| PHENOL (CAS 108-95-2) | IDLH | 1.8 % |
| | | 250 ppm |
| QUARTZ (CAS 14808-60-7) | IDLH | 50 mg/m3 |

**US. NIOSH: Pocket Guide to Chemical Hazards Recommended Exposure Limits (REL)**

| Components | Type | Value | Form |
|---|---|---|---|
| ETHANOL (CAS 64-17-5) | TWA | 1900 mg/m3 | |
| | | 1000 ppm | |
| PHENOL (CAS 108-95-2) | Ceiling | 60 mg/m3 | |
| | | 15.6 ppm | |
| | TWA | 19 mg/m3 | |

**US. NIOSH: Pocket Guide to Chemical Hazards Recommended Exposure Limits (REL)**

| Components | Type | Value | Form |
|---|---|---|---|
| | | 5 ppm | |
| QUARTZ (CAS 14808-60-7) | TWA | 0.05 mg/m3 | Respirable dust. |

**US. OARS. Workplace Environmental Exposure Level (WEEL) Guide**

| Components | Type | Value |
|---|---|---|
| TRIETHYLENETETRAMINE (CAS 112-24-3) | TWA | 6 mg/m3 |
| | | 1 ppm |

**Biological limit values**

**ACGIH Biological Exposure Indices (BEI)**

| Components | Value | Determinant | Specimen | Sampling Time |
|---|---|---|---|---|
| PHENOL (CAS 108-95-2) | 250 mg/g | Phenol with hydrolysis | Creatinine in urine | * |

* - For sampling details, please see the source document.

**Exposure guidelines** No exposure standards allocated.

**US - California OELs: Skin designation**

PHENOL (CAS 108-95-2) Can be absorbed through the skin.

**US - Minnesota Haz Subs: Skin designation applies**

PHENOL (CAS 108-95-2) Skin designation applies.

**US - Tennessee OELs: Skin designation**

PHENOL (CAS 108-95-2) Can be absorbed through the skin.

**US ACGIH Threshold Limit Values: Skin designation**

PHENOL (CAS 108-95-2) Danger of cutaneous absorption

**US NIOSH Pocket Guide to Chemical Hazards: Skin designation**

PHENOL (CAS 108-95-2) Can be absorbed through the skin.

**US WEEL Guides: Skin designation**

TRIETHYLENETETRAMINE (CAS 112-24-3) Can be absorbed through the skin.

**US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

PHENOL (CAS 108-95-2) Can be absorbed through the skin.

**Appropriate engineering controls** Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection** Goggles/face shield are recommended.

**Skin protection**

**Hand protection** Chemical resistant gloves are recommended. If contact with forearms is likely wear gauntlet style gloves.

**Other** Use protective gloves, goggles and suitable protective clothing.

**Respiratory protection** When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

**General hygiene considerations** Do not get in eyes. Do not get this material in contact with skin. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Wash hands after handling and before eating. Keep away from food and drink. Contaminated work clothing should not be allowed out of the workplace. Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical and chemical properties

**Appearance** Liquid.

**Physical state** Liquid.

**Form** Liquid.

**Color** Light yellow.

**Odor** Sulphurous.

**Odor threshold** Not available.

**pH** Basic

| | |
|---|---|
| **Melting point/freezing point** | 53.6 °F (12 °C) estimated |
| **Initial boiling point and boiling range** | 359.15 °F (181.75 °C) estimated |
| **Flash point** | >200.0 °F (>93.3 °C) |
| **Evaporation rate** | Not available. |
| **Flammability (solid, gas)** | Not available. |
| **Upper/lower flammability or explosive limits** | |
| **Explosive limit - lower (%)** | 3 % estimated |
| **Explosive limit - upper (%)** | 10 % estimated |
| **Vapor pressure** | Not available. |
| **Vapor density** | Not available. |
| **Relative density** | Not available. |
| **Solubility(ies)** | |
| **Solubility (water)** | Not available. |
| **Partition coefficient (n-octanol/water)** | Not available. |
| **Auto-ignition temperature** | 640 °F (337.78 °C) estimated |
| **Decomposition temperature** | Not available. |
| **Viscosity** | Not available. |
| **Other information** | |
| **Density** | 12.66 lb/gal estimated |
| **Specific gravity** | 1.5204 estimated |

## 10. Stability and reactivity

| | |
|---|---|
| **Reactivity** | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| **Chemical stability** | Stable under normal temperature conditions. |
| **Possibility of hazardous reactions** | No dangerous reaction known under conditions of normal use. |
| **Conditions to avoid** | Heat, flames and sparks. |
| **Incompatible materials** | Strong oxidizing agents. Acids. Moist air. |
| **Hazardous decomposition products** | At thermal decomposition temperatures, carbon monoxide and carbon dioxide. |

## 11. Toxicological information

**Information on likely routes of exposure**

| | |
|---|---|
| **Inhalation** | Prolonged inhalation may be harmful. |
| **Skin contact** | Causes severe skin burns and eye damage. May cause an allergic skin reaction. |
| **Eye contact** | Causes serious eye damage. |
| **Ingestion** | May be harmful if swallowed. |
| **Symptoms related to the physical, chemical and toxicological characteristics** | Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Contact may cause redness, burning, drying, and cracking of the skin, and skin damage. Rash. Dermatitis. May cause an allergic skin reaction. Causes serious eye damage. Burning pain and severe corrosive skin damage. |

**Information on toxicological effects**

**Acute toxicity**

| Components | Species | Test Results |
|---|---|---|
| 2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL (CAS 90-72-2) | | |
| **Acute** | | |
| **Dermal** | | |
| LD50 | Rat | 1280 mg/kg |
| **Oral** | | |
| LD50 | Rat | 1200 mg/kg |

| Components | Species | Test Results |
|---|---|---|
| 3-AMINOPROPYLTRIETHOXYSILANE (CAS 919-30-2) | | |
| **Acute** | | |
| **Inhalation** | | |
| LC50 | - | > 7.35 mg/l, 4 Hours |
| ETHANOL (CAS 64-17-5) | | |
| **Acute** | | |
| **Oral** | | |
| LD50 | Rat | 6.2 g/kg |
| PHENOL (CAS 108-95-2) | | |
| **Acute** | | |
| **Dermal** | | |
| LD50 | Rat | 669 mg/kg |

* Estimates for product may be based on additional component data not shown.

**Skin corrosion/irritation** Causes severe skin burns and eye damage.

**Serious eye damage/eye irritation** Causes severe eye burns.

**Respiratory or skin sensitization**

**Respiratory sensitization** Not available.

**Skin sensitization** May cause an allergic skin reaction.

**Germ cell mutagenicity** Suspected of causing genetic defects.

**Carcinogenicity** This product contains crystalline silica. Silica is a known carcinogen; however in this encapsulated form the normal routes of exposure are unavailable.

**IARC Monographs. Overall Evaluation of Carcinogenicity**

| | |
|---|---|
| PHENOL (CAS 108-95-2) | 3 Not classifiable as to carcinogenicity to humans. |
| QUARTZ (CAS 14808-60-7) | 1 Carcinogenic to humans. |

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)**

| | |
|---|---|
| QUARTZ (CAS 14808-60-7) | Cancer |

**US. National Toxicology Program (NTP) Report on Carcinogens**

| | |
|---|---|
| QUARTZ (CAS 14808-60-7) | Known To Be Human Carcinogen. |

**Reproductive toxicity** Contains no ingredient listed as toxic to reproduction.

**Specific target organ toxicity - single exposure** Not available.

**Specific target organ toxicity - repeated exposure** May cause damage to organs through prolonged or repeated exposure.

**Aspiration hazard** Not available.

**Chronic effects** Not expected to be hazardous by WHMIS criteria.

**Further information** Symptoms may be delayed.

## 12. Ecological information

**Ecotoxicity** Accumulation in aquatic organisms is expected. Contains a substance which causes risk of hazardous effects to the environment. Expected to be harmful to aquatic organisms. The product contains a substance which may cause long-term adverse effects in the environment.

| Product | | Species | Test Results |
|---|---|---|---|
| METAL REPAIR PASTE FAST CURE PART B | | | |
| **Aquatic** | | | |
| Crustacea | EC50 | Daphnia | 1344.3275 mg/l, 48 hours |
| Fish | LC50 | Fish | 974.0854 mg/l, 96 hours |
| *Acute* | | | |
| Crustacea | EC50 | Daphnia | 142.005 mg/l, 48 hours estimated |
| Fish | LC50 | Fish | 229.3543 mg/l, 96 hours estimated |

| Components | | Species | Test Results |
|---|---|---|---|
| ETHANOL (CAS 64-17-5) | | | |
| **Aquatic** | | | |
| *Acute* | | | |
| Crustacea | EC50 | Water flea (Daphnia magna) | >= 7.7 - <= 11.2 mg/l, 48 hours |
| Fish | LC50 | Rainbow trout,donaldson trout (Oncorhynchus mykiss) | 42 mg/l, 4 days |
| PHENOL (CAS 108-95-2) | | | |
| **Aquatic** | | | |
| *Acute* | | | |
| Crustacea | EC50 | Water flea (Daphnia magna) | 4.24 - 10.7 mg/l, 48 hours |
| Fish | LC50 | Asiatic knifefish (Notopterus notopterus) | 6.85 mg/l, 96 hours |

* Estimates for product may be based on additional component data not shown.

**Persistence and degradability** Not available.

**Bioaccumulative potential** Not available.

**Partition coefficient n-octanol / water (log Kow)**

| | |
|---|---|
| ETHANOL | -0.31 |
| PHENOL | 1.46 |

**Mobility in soil** Not available.

**Other adverse effects** Not available.

## 13. Disposal considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Dispose in accordance with all applicable regulations.

**Hazardous waste code** The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

**Waste from residues / unused products** Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

**Contaminated packaging** Since emptied containers may retain product residue, follow label warnings even after container is emptied.

## 14. Transport information

**DOT**

Not regulated as dangerous goods.

**IATA**

**UN number** UN3334

**UN proper shipping name** Aviation regulated liquid, n.o.s. (mercaptan terminated polymer)

**Transport hazard class(es)**

**Class** 9

**Subsidiary hazard** -

**Packing group** III

**Environmental hazards** No.

**ERG Code** 9A

**Special precautions for user** Not assigned.

**Other information**

**Passenger and cargo aircraft** Allowed with restrictions.

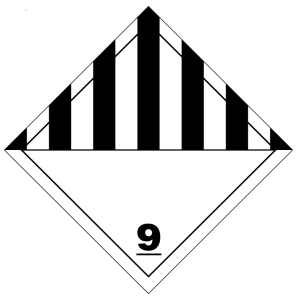
**Cargo aircraft only** Allowed with restrictions.

**IMDG**

Not regulated as dangerous goods.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not available.

**IATA**




## 15. Regulatory information

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
CERCLA/SARA Hazardous Substances - Not applicable.

**Toxic Substances Control Act (TSCA)**

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)**

| | |
|---|---|
| ETHANOL (CAS 64-17-5) | Listed. |
| PHENOL (CAS 108-95-2) | Listed. |

**SARA 304 Emergency release notification**

| | |
|---|---|
| Phenol (CAS 108-95-2) | 1000 LBS |

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)**

| | |
|---|---|
| QUARTZ (CAS 14808-60-7) | Cancer<br>lung effects<br>immune system effects<br>kidney effects |

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**SARA 302 Extremely hazardous substance**

| Chemical name | CAS number | Reportable quantity (pounds) | Threshold planning quantity (pounds) | Threshold planning quantity, lower value (pounds) | Threshold planning quantity, upper value (pounds) |
|---|---|---|---|---|---|
| PHENOL | 108-95-2 | 1000 | | 500 | 10000 |

**SARA 311/312 Hazardous chemical** Yes

**Classified hazard categories**
Skin corrosion or irritation
Serious eye damage or eye irritation
Respiratory or skin sensitization
Germ cell mutagenicity
Specific target organ toxicity (single or repeated exposure)

**SARA 313 (TRI reporting)**

| Chemical name | CAS number | % by wt. |
|---|---|---|
| PHENOL | 108-95-2 | 1 - 10 |

**Other federal regulations**

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

PHENOL (CAS 108-95-2)

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

**Safe Drinking Water Act (SDWA)** Not regulated.

**FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace**

| | |
|---|---|
| ETHANOL (CAS 64-17-5) | Low priority |
| PHENOL (CAS 108-95-2) | Low priority |

**US state regulations** WARNING: This product contains a chemical known to the State of California to cause cancer.

**US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))**

PHENOL (CAS 108-95-2)
QUARTZ (CAS 14808-60-7)

**California Proposition 65**

**California Proposition 65 - CRT: Listed date/Carcinogenic substance**

| | |
|---|---|
| ETHANOL (CAS 64-17-5) | Listed: April 29, 2011<br>Listed: July 1, 1988 |
| QUARTZ (CAS 14808-60-7) | Listed: October 1, 1988 |

**California Proposition 65 - CRT: Listed date/Developmental toxin**

| | |
|---|---|
| ETHANOL (CAS 64-17-5) | Listed: October 1, 1987 |

**International Inventories**

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|---|---|---|
| Australia | Australian Inventory of Industrial Chemicals (AICIS) | Yes |
| Canada | Domestic Substances List (DSL) | Yes |
| Canada | Non-Domestic Substances List (NDSL) | No |
| China | Inventory of Existing Chemical Substances in China (IECSC) | Yes |
| Europe | European Inventory of Existing Commercial Chemical Substances (EINECS) | Yes |
| Europe | European List of Notified Chemical Substances (ELINCS) | No |
| Japan | Inventory of Existing and New Chemical Substances (ENCS) | Yes |
| Korea | Existing Chemicals List (ECL) | Yes |
| New Zealand | New Zealand Inventory | Yes |
| Philippines | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | Yes |
| Taiwan | Taiwan Chemical Substance Inventory (TCSI) | Yes |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes |

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

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

**Issue date** 07-31-2017

**Revision date** 04-15-2024

**Version #** 11

**Further information** HMIS® is a registered trade and service mark of the NPCA.

**NFPA ratings**
Health: 3
Flammability: 1
Instability: 0

**References**
ACGIH
EPA: AQUIRE database
NLM: Hazardous Substances Data Base
US. IARC Monographs on Occupational Exposures to Chemical Agents
HSDB® - Hazardous Substances Data Bank
IARC Monographs. Overall Evaluation of Carcinogenicity
National Toxicology Program (NTP) Report on Carcinogens
ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices

**Disclaimer** The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**Revision information** This document has undergone significant changes and should be reviewed in its entirety.