

# Safety Data Sheet

**RUST-OLEUM**  
AUSTRALIA

www.rustoleum.com.au

## 1. Identification

**Product Name:** R-O SSPR 6PK IBU LEAKSEAL BLACK **Revision Date:** 29/03/2021

**Name on Label:** LeakSeal Flexible Rubber Coating Black **Supercedes Date:** 21/05/2019

**Product Identifier:** 273563

**Product Use/Class:** Leak Sealer/Aerosols

**Supplier:** Rust-Oleum Australia & New Zealand Pty. Ltd.  
Level 2, 307 Ferntree Gully Road  
Mount Waverley, Victoria 3149  
Australia  
Ph 1 300 784 476

**Manufacturer:** Rust-Oleum Corporation  
11 Hawthorn Parkway  
Vernon Hills, IL 60061  
USA

**Preparer:** Regulatory Department

**Emergency Telephone:** 24 Hour Hotline: 1-300-366-961

## 2. Hazard Identification

This product is classified as a Dangerous Good per the Australian Code for the Transport of Dangerous Goods by Road and Rail. This product was assessed per Safe Work Australia criteria.

### Classification

#### Symbol(s) of Product



#### Signal Word

Danger

#### Possible Hazards

64% of the mixture consists of ingredient(s) of unknown acute toxicity.

#### GHS HAZARD STATEMENTS

|                                      |      |   |
|--------------------------------------|------|---|
| Carcinogenicity, category 1B         | H350 | May cause cancer.   |
| Eye Irritation, category 2A          | H319 | Causes serious eye irritation.                                  |
| Flammable Aerosol, category 1        | H222 | Extremely flammable aerosol.                                    |
| Gases under Pressure; Compressed Gas | H280 | Contains gas under pressure; may explode if heated.             |
| STOT, Repeated Exposure, category 1  | H372 | Causes damage to organs through prolonged or repeated exposure. |
| Skin Irritation, category 2          | H315 | Causes skin irritation.   |

#### GHS LABEL PRECAUTIONARY STATEMENTS

|      |  |
|------|--|
| P201 | Obtain special instructions before use.  |
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. NO SMOKING. |
| P211 | Do not spray on an open flame or other ignition source.  |
| P251 | Do not pierce or burn, even after use.   |
| P260 | Do not breathe dust/fume/gas/mist/vapors/spray.  |
| P264 | Wash hands thoroughly after handling.  |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection.                     |

LeakSeal Flexible Rubber Coating Black

|                |  |
|----------------|--|
| P302+P352      | IF ON SKIN: Wash with plenty of soap and water.  |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P308+P313      | IF exposed or concerned: Get medical advice/attention.   |
| P314           | Get medical advice/attention if you feel unwell.   |
| P321           | For specific treatment see label.  |
| P332+P313      | If skin irritation occurs: Get medical advice/attention.   |
| P337+P313      | If eye irritation persists: Get medical advice/attention.  |
| P362+P364      | Take off contaminated clothing and wash it before reuse.   |
| P405           | Store locked up.   |
| P410+P403      | Protect from sunlight. Store in a well-ventilated place.   |
| P410+P412      | Protect from sunlight. Do not expose to temperatures exceeding 50°C / 122°F.   |
| P501           | Dispose of contents/container in accordance with local, regional and national regulations.                                       |

**GHS SDS PRECAUTIONARY STATEMENTS**

P270 Do not eat, drink or smoke when using this product.

### 3. Composition/Information On Ingredients

**HAZARDOUS SUBSTANCES**

| <u>Chemical Name</u>                              | <u>CAS-No.</u> | <u>Wt.% Range</u> | <u>GHS Symbols</u> | <u>GHS Statements</u> |
|---|----------------|-------------------|--------------------|-----------------------|
| Naphtha, Petroleum, Hydrotreated Light            | 64742-49-0     | 10-25             | GHS07-GHS08        | H304-315-319-372      |
| Propane   | 74-98-6        | 10-25             | GHS04              | H280                  |
| Dimethyl Carbonate                                | 616-38-6       | 10-25             | GHS02              | H225                  |
| n-Butane  | 106-97-8       | 2.5-10            | GHS04              | H280                  |
| Hydrous Magnesium Silicate                        | 14807-96-6     | 2.5-10            | Not Available      | Not Available         |
| Xylenes (o-, m-, p- Isomers)                      | 1330-20-7      | 2.5-10            | GHS02-GHS07        | H226-315-319-332-335  |
| Ethyl Acetate                                     | 141-78-6       | 2.5-10            | GHS02-GHS07        | H225-319-332-336      |
| n-Butyl Acetate                                   | 123-86-4       | 1.0-2.5           | GHS02-GHS07        | H226-336              |
| Methyl Isobutyl Ketone                            | 108-10-1       | 1.0-2.5           | GHS02-GHS06-GHS08  | H225-319-331-335-351  |
| Ethylbenzene                                      | 100-41-4       | 1.0-2.5           | GHS02-GHS07        | H225-315-319-332      |
| n-Heptane   | 142-82-5       | 1.0-2.5           | GHS02-GHS07-GHS08  | H225-304-315-336      |
| Octane  | 111-65-9       | 1.0-2.5           | GHS02-GHS07-GHS08  | H225-304-315-336      |
| Carbon Black                                      | 1333-86-4      | 0.1-1.0           | GHS08              | H373                  |
| Methanol  | 67-56-1        | 0.1-1.0           | GHS02-GHS06-GHS08  | H225-331-370          |
| Stoddard Solvent                                  | 8052-41-3      | 0.1-1.0           | GHS08              | H304-372              |
| bis(1,2,2,6,6-Pentamethyl-4-Piperidiny)l Sebacate | 41556-26-7     | 0.1-1.0           | GHS05-GHS06        | H317-318-330          |
| Distillates (Petroleum), Hydrodesulfurized Middle | 64742-80-9     | 0.1-1.0           | GHS07-GHS08        | H304-315-332-350      |

The balance of the product is Nonhazardous.

### 4. First-Aid Measures

**FIRST AID - EYE CONTACT:** Immediately flush eyes with plenty of water for at least 15 minutes holding eyelids open. Get medical attention. Do NOT allow rubbing of eyes or keeping eyes closed.

**FIRST AID - SKIN CONTACT:** Wash skin with soap and water. Remove contaminated clothing. Get medical attention if irritation develops or persists.

**FIRST AID - INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention. Do NOT use mouth-to-mouth resuscitation. If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately.

**FIRST AID - INGESTION:** Aspiration hazard: Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. Get immediate medical attention. If swallowed, get medical attention.

## 5. Fire-fighting Measures

**ADG HAZCHEM CODE:** None

**EXTINGUISHING MEDIA:** Alcohol Film Forming Foam, Carbon Dioxide, Dry Chemical, Dry Sand, Water Fog

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** FLASH POINT IS LESS THAN 20°F. EXTREMELY FLAMMABLE LIQUID AND VAPOR! Water spray may be ineffective. Closed containers may explode when exposed to extreme heat due to buildup of steam. Closed containers may explode when exposed to extreme heat. Vapors may form explosive mixtures with air. Vapors can travel to a source of ignition and flash back. Isolate from heat, electrical equipment, sparks and open flame. Perforation of the pressurized container may cause bursting of the can.

**SPECIAL FIREFIGHTING PROCEDURES:** Water may be used to cool closed containers to prevent pressure buildup and possible autoignition or explosion. Full protective equipment including self-contained breathing apparatus should be used. Evacuate area and fight fire from a safe distance. Use water spray to keep fire-exposed containers cool. Containers may explode when heated.

## 6. Accidental Release Measures

**STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:** Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Remove all sources of ignition, ventilate area and remove with inert absorbent and non-sparking tools. Dispose of according to local, state (provincial) and federal regulations. Do not incinerate closed containers. Ventilate area, isolate spilled material, and remove with inert absorbent. Dispose of contaminated absorbent, container, and unused contents in accordance with local, state, and federal regulations.

## 7. Handling and Storage

**HANDLING:** Wash thoroughly after handling. Wash hands before eating. Remove contaminated clothing and launder before reuse. Use only with adequate ventilation. Follow all SDS and label precautions even after container is emptied because it may retain product residues. Avoid breathing fumes, vapors, or mist. Avoid contact with eyes, skin and clothing.

**STORAGE:** Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Contents under pressure. Do not store above 120°F. Store large quantities in buildings designed and protected for storage of flammable aerosols. Keep away from heat, sparks, flame and sources of ignition. Avoid excess heat. Product should be stored in tightly sealed containers and protected from heat, moisture, and foreign materials.

**Advice on Safe Handling of Combustible Dust:** No Information

## 8. Exposure Controls / Personal Protection

| Chemical Name                                    | CAS-No.    | Weight % Less Than | WHS WES TLV-TWA | WHS WES TLV-STEL |
|--|------------|--------------------|-----------------|------------------|
| Naphtha, Petroleum, Hydrotreated Light           | 64742-49-0 | 25.0               | N.E.            | N.E.             |
| Propane  | 74-98-6    | 20.0               | N.E.            | N.E.             |
| Dimethyl Carbonate                               | 616-38-6   | 15.0               | N.E.            | N.E.             |
| n-Butane   | 106-97-8   | 10.0               | N.E.            | 1000 ppm         |
| Hydrous Magnesium Silicate                       | 14807-96-6 | 10.0               | 2 mg/m3         | N.E.             |
| Xylenes (o-, m-, p- Isomers)                     | 1330-20-7  | 10.0               | 100 ppm         | 150 ppm          |
| Ethyl Acetate                                    | 141-78-6   | 5.0                | 400 ppm         | N.E.             |
| n-Butyl Acetate                                  | 123-86-4   | 5.0                | 50 ppm          | 150 ppm          |
| Methyl Isobutyl Ketone                           | 108-10-1   | 5.0                | 20 ppm          | 75 ppm           |
| Ethylbenzene                                     | 100-41-4   | 5.0                | 20 ppm          | N.E.             |
| Octane   | 111-65-9   | 5.0                | 300 ppm         | N.E.             |
| n-Heptane  | 142-82-5   | 5.0                | 400 ppm         | 500 ppm          |
| Carbon Black                                     | 1333-86-4  | 1.0                | 3 mg/m3         | N.E.             |
| Methanol   | 67-56-1    | 1.0                | 200 ppm         | 250 ppm          |
| Stoddard Solvent                                 | 8052-41-3  | 1.0                | 100 ppm         | N.E.             |
| bis(1,2,2,6,6-Pentamethyl-4-Piperidiny) Sebacate | 41556-26-7 | 1.0                | N.E.            | N.E.             |

|   |            |     |      |      |
|---|------------|-----|------|------|
| Distillates (Petroleum), Hydrodesulfurized Middle | 64742-80-9 | 1.0 | N.E. | N.E. |
|---|------------|-----|------|------|

## PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof ventilation equipment. Provide general dilution of local exhaust ventilation in volume and pattern to keep TLV of hazardous ingredients below acceptable limits. Prevent build-up of vapors by opening all doors and windows to achieve cross-ventilation.

**RESPIRATORY PROTECTION:** Wear an approved (or equivalent) full-facepiece airline respirator according to AS/NZS 1715-2009 and AS/NZS 1716-2012 in the positive pressure mode with emergency escape provisions. A respiratory protection program that meets AS/NZS 1715-2009 and AS/NZS 1716-2012 requirements must be followed whenever workplace conditions warrant a respirator's use. An approved air purifying respirator with organic vapor cartridge or canister according to AS/NZS 1715-2009 and AS/NZS 1716-2012 may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Users of this product in industrial/OEM applications must use one of the following forms of respiratory protection:

- AS/NZS 1715-2009 and AS/NZS 1716-2012 compliant supplied-air respirator operated in pressure demand or continuous flow mode and equipped with a tight fitting facepiece
- AS/NZS 1715-2009 and AS/NZS 1716-2012 compliant air-purifying respirator equipped with a full facepiece and organic gas/vapor cartridges
- AS/NZS 1715-2009 and AS/NZS 1716-2012 compliant powered air-purifying respirator equipped with a full facepiece and organic gas/vapor cartridges.

**SKIN PROTECTION:** Use gloves to prevent prolonged skin contact. Nitrile or Neoprene gloves may afford adequate skin protection.

**EYE PROTECTION:** Use safety eyewear designed to protect against splash of liquids.

**OTHER PROTECTIVE EQUIPMENT:** Refer to safety supervisor or industrial hygienist for further guidance regarding types of personal protective equipment and their applications.

**HYGIENIC PRACTICES:** Wash thoroughly with soap and water before eating, drinking or smoking. Remove contaminated clothing immediately and launder before reuse.

**Engineering Measures for Combustible Dust:** No Information

## 9. Physical and Chemical Properties

|                                 |                     |  |            |
|---------------------------------|---------------------|--|------------|
| <b>Appearance:</b>              | Aerosolized Mist    | <b>Physical State:</b>                         | Liquid     |
| <b>Odor:</b>                    | Solvent Like        | <b>Odor Threshold:</b>                         | N.E.       |
| <b>Specific Gravity:</b>        | 0.783               | <b>pH:</b>                                     | N.A.       |
| <b>Freeze Point, °C:</b>        | N.D.                | <b>Viscosity:</b>                              | N.D.       |
| <b>Solubility in Water:</b>     | Negligible          | <b>Partition Coefficient, n-octanol/water:</b> | N.D.       |
| <b>Decomposition Temp., °C:</b> | N.D.                | <b>Explosive Limits, vol%:</b>                 | 0.9 - 10.7 |
| <b>Boiling Range, °C:</b>       | -37 - 537           | <b>Flash Point, °C:</b>                        | -96        |
| <b>Flammability:</b>            | Supports Combustion | <b>Auto-Ignition Temp., °C:</b>                | N.D.       |
| <b>Evaporation Rate:</b>        | Faster than Ether   | <b>Vapor Pressure:</b>                         | N.D.       |
| <b>Vapor Density:</b>           | Heavier than Air    |  |            |

(See "Other information" Section for abbreviation legend)

## 10. Stability and Reactivity

**Conditions to Avoid:** Avoid temperatures above 120°F (49°C). Avoid all possible sources of ignition.

**Incompatibility:** Incompatible with strong oxidizing agents, strong acids and strong alkalis.

**Hazardous Decomposition:** By open flame, carbon monoxide and carbon dioxide. When heated to decomposition, it emits acrid smoke and irritating fumes. Contains solvents which may form carbon monoxide, carbon dioxide, and formaldehyde.

**Hazardous Polymerization:** Will not occur under normal conditions.

**Stability:** This product is stable under normal storage conditions. May form peroxides of unknown stability.

## 11. Toxicological Information

**EFFECTS OF OVEREXPOSURE - EYE CONTACT:** Causes Serious Eye Irritation

**EFFECTS OF OVEREXPOSURE - SKIN CONTACT:** May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material.

**EFFECTS OF OVEREXPOSURE - INHALATION:** Harmful if inhaled. High gas, vapor, mist or dust concentrations may be harmful if inhaled. Avoid breathing fumes, spray, vapors, or mist. High vapor concentrations are irritating to the eyes, nose, throat and lungs. Prolonged or excessive inhalation may cause respiratory tract irritation. Constituents of this product include crystalline silica dust

which can cause silicosis, a form of progressive pulmonary fibrosis. Inhalable crystalline silica is listed by IARC as a group I carcinogen (lung) based on sufficient evidence in occupationally exposed humans and sufficient evidence in animals. Crystalline Silica is also listed by the NTP as a known human carcinogen. Constituents may also contain prismatic tremolite as an impurity, and sufficient exposure to respirable prismatic tremolite dust may cause serious lung problems. Routine handling and application does not require use of respiratory protection; however, if air monitoring demonstrates vapor, mist, or dust levels above applicable limits, wear an appropriate, properly fitted respirator (meets AS/NZS 1715-2009 and AS/NZS 1716-2012 requirements) during handling and application. Follow respirator manufacturer's directions for respirator use.

**EFFECTS OF OVEREXPOSURE - INGESTION:** Harmful if swallowed. Poison, may be fatal or cause blindness if swallowed.

**EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS:** May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage. High concentrations may lead to central nervous system effects (drowsiness, dizziness, nausea, headaches, paralysis, and blurred vision) and/or damage. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Overexposure to xylene in laboratory animals has been associated with liver abnormalities, kidney, lung, spleen, eye and blood damage as well as reproductive disorders. Effects in humans, due to chronic overexposure, have included liver, cardiac abnormalities and nervous system damage. Contains carbon black. Chronic inflammation, lung fibrosis, and lung tumors have been observed in some rats experimentally exposed for long periods of time to excessive concentrations of carbon black and several insoluble fine dust particles. Tumors have not been observed in other animal species (i.e., mouse and hamster) under similar circumstances and study conditions. Epidemiological studies of North American workers show no evidence of clinically significant adverse health effects due to occupational exposure to carbon black.

Carbon black is listed as a Group 2B-"Possibly carcinogenic to humans" by IARC and is proposed to be listed as A4- "not classified as a human carcinogen" by the American Conference of Governmental Industrial Hygienists. Significant exposure is not anticipated during brush application or drying. Risk of overexposure depends on duration and level of exposure to dust from repeated sanding of surfaces or spray mist and the actual concentration of carbon black in the formula. IARC lists Ethylbenzene as a possible human carcinogen (group 2B).

**PRIMARY ROUTE(S) OF ENTRY:** Eye Contact, Ingestion, Inhalation, Skin Absorption, Skin Contact

#### ACUTE TOXICITY VALUES

The acute effects of this product have not been tested. Data on individual components are tabulated below:

| <u>CAS-No.</u> | <u>Chemical Name</u>                                 | <u>Oral LD50</u> | <u>Dermal LD50</u>  | <u>Vapor LC50</u> |
|----------------|--|------------------|---------------------|-------------------|
| 64742-49-0     | Naphtha, Petroleum, Hydrotreated Light               | >5000 mg/kg Rat  | >3160 mg/kg Rabbit  | >4951 mg/L Rat    |
| 616-38-6       | Dimethyl Carbonate                                   | 13000 mg/kg Rat  | >5000 mg/kg Rabbit  | 140 mg/L Rat      |
| 106-97-8       | n-Butane   | N.E.             | N.E.                | 658 mg/L Rat      |
| 14807-96-6     | Hydrous Magnesium Silicate                           | 6000             | N.E.                | 30                |
| 1330-20-7      | Xylenes (o-, m-, p- Isomers)                         | 3500 mg/kg Rat   | >4350 mg/kg Rabbit  | 29.08 mg/L Rat    |
| 141-78-6       | Ethyl Acetate  | 5620 mg/kg Rat   | >18000 mg/kg Rabbit | N.E.              |
| 123-86-4       | n-Butyl Acetate                                      | 10768 mg/kg Rat  | >17600 mg/kg Rabbit | > 21 mg/L Rat     |
| 108-10-1       | Methyl Isobutyl Ketone                               | 2080 mg/kg Rat   | 3000 mg/kg Rabbit   | N.E.              |
| 100-41-4       | Ethylbenzene   | 3500 mg/kg Rat   | 15400 mg/kg Rabbit  | 17.4 mg/L Rat     |
| 142-82-5       | n-Heptane  | N.E.             | 3000 mg/kg Rabbit   | 103 mg/L Rat      |
| 111-65-9       | Octane   | N.E.             | N.E.                | >23.36 mg/L Rat   |
| 1333-86-4      | Carbon Black   | >15400 mg/kg Rat | N.E.                | N.E.              |
| 67-56-1        | Methanol   | 6200 mg/kg Rat   | 15840 mg/kg Rabbit  | N.E.              |
| 8052-41-3      | Stoddard Solvent                                     | N.E.             | >3000 mg/kg Rabbit  | N.E.              |
| 41556-26-7     | bis(1,2,2,6,6-Pentamethyl-4-Piperidiny)<br>Sebacate  | 2615 mg/kg Rat   | N.E.                | N.E.              |
| 64742-80-9     | Distillates (Petroleum), Hydrodesulfurized<br>Middle | >5000 mg/kg Rat  | >2000 mg/kg Rabbit  | N.E.              |

N.E. - Not Established

## 12. Ecological Information

**ECOLOGICAL INFORMATION:** Product is a mixture of listed components.

## 13. Disposal Information

**DISPOSAL INFORMATION:** Do not incinerate closed containers. This product as supplied is a USEPA defined ignitable hazardous waste. Dispose of unusable product as a hazardous waste (D001) in accordance with local, state, and federal regulation.

## 14. Transport Information

|                       | <u>Domestic (USDOT)</u>                     | <u>International (IMDG)</u> | <u>Air (IATA)</u>   | <u>ADG</u> |
|-----------------------|---|-----------------------------|---------------------|------------|
| UN Number:            | N.A.  | 1950                        | 1950                | 1950       |
| Proper Shipping Name: | Paint and Related Spray Products in Ltd Qty | Aerosols                    | Aerosols, flammable | Aerosols   |
| Hazard Class:         | N.A.  | 2                           | 2.1                 | 2.1        |
| Packing Group:        | N.A.  | N.A.                        | N.A.                | N.A.       |
| Limited Quantity:     | Yes   | Yes                         | Yes                 | Yes        |
| ADG Hazchem Code:     | None  |                             |                     |            |

## 15. Regulatory Information

### Montreal Protocol

No Montreal Protocol components exist in this product.

### Stockholm Convention

No Stockholm Convention components exist in this product.

### Rotterdam Convention

No Rotterdam Convention components exist in this product.

### MARPOL

This product contains the following substances listed under the MARPOL regulations:

| <u>Chemical Name</u>   | <u>CAS-No.</u> |
|------------------------|----------------|
| n-Heptane              | 142-82-5       |
| Octane                 | 111-65-9       |
| n-Nonane               | 111-84-2       |
| 1,3,5-Trimethylbenzene | 108-67-8       |
| Naphthalene            | 91-20-3        |

### SUSMP

This product contains the following substances classified as poisons as regulated by the Poisons Standard (SUSMP):

| <u>Chemical Name</u> | <u>Schedule Number(s)</u> |
|----------------------|---------------------------|
| Liquid Hydrocarbons  | Schedule 5                |

### Capital Territories Environmental Regulations

This product contains the following substances listed under the Australian Capital Territories Environmental Protection Regulation:

| <u>Chemical Name</u>         | <u>Schedule</u> | <u>Schedule Name</u>                 |
|------------------------------|-----------------|--------------------------------------|
| Xylenes (o-, m-, p- Isomers) | 3               | DOM - Organic Chemicals              |
| Ethylbenzene                 | 3               | Non-pesticide Anthropogenic Organics |
| Chlorine Dioxide Ion (-1)    | 3               | DOM - Disinfection By-products       |
| Toluene                      | 3               | Non-pesticide Anthropogenic Organics |
| Benzene                      | 3               | Non-pesticide Anthropogenic Organics |

**16. Other Information**

**SDS REVISION DATE:** 29/03/2021

**REASON FOR REVISION:** Substance and/or Product Properties Changed in Section(s):  
01 - Identification  
02 - Hazard Identification  
03 - Composition / Information on Ingredients  
09 - Physical & Chemical Properties  
11 - Toxicological Information  
15 - Regulatory Information  
Product Composition Changed  
Substance Hazard Threshold % Changed  
Substance Chemical Name Changed  
Substance Hazardous Flag Changed  
Revision Statement(s) Changed

**Legend:**

N.A. - Not Applicable    N.D. - Not Determined    N.E. - Not Established  
S.T.E.L. - Short Term Exposure Limit  
T.W.A. - Time Weighted Average  
W.E.S. - Workplace Exposure Standard  
W.H.S. - Work Health and Safety regulation

The manufacturer believes, to the best of its knowledge, information and belief, the information contained herein to be accurate and reliable as of the date of this safety data sheet. However, because the conditions of handling, use, and storage of these materials are beyond our control, we assume no responsibility or liability for personal injury or property damage incurred by the use of these materials. The manufacturer makes no warranty, expressed or implied, regarding the accuracy or reliability of the data or results obtained from their use. All materials may present unknown hazards and should be used with caution. The information and recommendations in this material safety data sheet are offered for the users' consideration and examination. It is the responsibility of the user to determine the final suitability of this information and to comply with all applicable international, federal, state, and local laws and regulations.