



Be Right™

SAFETY DATA SHEET

Issue Date 15-Jul-2016

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Version 2

Section 1: Identification: Product identifier and chemical identity

Product identifier

Product Name Silica Standard Solution, 50 mg/l as SiO₂

Product Code(s) 111729

Other means of identification

Safety data sheet number M00657

Component of Kits or Sets

Raw Material/Pure Substance Mixture

Chemical Name Not applicable

Alternate CAS Number Not applicable

NIOSH (RTECS) Number None reported

Distributed by:



WatertestSystems

Unit 4/13 Swaffham Rd, Minto NSW 2566
Tel: +612 87065400 www.watertestsystems.com.au
e: service@watertestsystems.com.au

Recommended use of the chemical and restrictions on use

Recommended Use Standard solution.

Uses advised against No information available

Details of manufacturer or importer

Manufacturer Address

Hach Company
P.O.Box 389 Loveland, CO 80539 USA
(970) 669-3050

Supplier

Hach Company
10/15 Howleys Road
Notting Hill VIC 3168
Tel: 1300 887 735

Emergency telephone number

13 11 26

Section 2: Hazard(s) identification

GHS - Classification

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Label elements

Hazard statements

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

EU Specific Hazard Statements

Not applicable

Other hazards

No information available

Section 3: Composition and information on ingredients, in accordance with Schedule 8**Substance**

Not applicable

Mixture

| Chemical Name | CAS No | Weight-% |
|---------------|--------|----------|
|---------------|--------|----------|

Section 4: FIRST AID MEASURES**Emergency telephone number**

Poisons Information Center, Australia: 13 11 26

Poisons Information Center, New Zealand: 0800 764 766

Description of first aid measures

| | |
|---|---|
| General advice | In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). |
| Inhalation | IF INHALED: Remove person to fresh air and keep comfortable for breathing. If symptoms persist, call a physician. |
| Eye contact | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If symptoms persist, call a physician. |
| Skin contact | IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If symptoms persist, call a physician. |
| Ingestion | IF SWALLOWED: Rinse Mouth. If symptoms persist, call a physician. |
| Self-protection of the first aider | Use personal protective equipment as required. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. |

Most important symptoms and effects, both acute and delayed

Symptoms See Section 11: TOXICOLOGICAL INFORMATION

Indication of any immediate medical attention and special treatment needed**Note to physicians** Treat symptomatically.**Section 5: Firefighting measures****Suitable Extinguishing Media****Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific hazards arising from the chemical

Specific hazards arising from the chemical This product will not burn or explode. May react violently with: alkali metals. Strong acids. Strong bases.

Hazardous combustion products This material will not burn.

Special protective actions for fire-fighters

Special protective equipment for fire-fighters Use personal protective equipment as required. Wear self contained breathing apparatus for fire fighting if necessary.

Section 6: ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures**

Personal precautions Evacuate personnel to safe areas. Do not touch or walk through spilled material. Ventilate affected area. Use personal protective equipment as required.

Other Information Use personal protective equipment as required.

For emergency responders Use personal protection recommended in Section 8.

Environmental precautions

Avoid release to the environment. See Section 12 for additional ecological information.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so. Dike far ahead of liquid spill for later disposal.

Methods for cleaning up Neutralize spill if necessary. Soak up with inert absorbent material. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly. Dispose of in accordance with local, state and federal regulations or laws.

Precautions to prevent secondary hazards

Clean contaminated objects and areas thoroughly observing environmental regulations. See section 8 for more information. See section 13 for more information.

Section 7: Handling and storage, including how the chemical may be safely used**Precautions for safe handling**

Advice on safe handling Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Do not breathe dust/fume/gas/mist/vapors/spray.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Take off all contaminated clothing and wash it before reuse. Wash hands thoroughly after handling. Regular cleaning of equipment, work area and clothing is recommended.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep in a dry, cool and well-ventilated place. Keep in properly labeled containers.

Incompatible materials May react violently in contact with: alkali metals. Strong acids. Strong bases.

Materials to avoid Strong oxidizing agents. Strong acids. Strong bases.

Section 8: Exposure controls and personal protection

Control parameters

Exposure Limits

| Chemical Name | CAS No | Australia |
|----------------------------------|------------|--|
| Propionic acid 0 - 10% | 79-09-4 | TWA: 10 ppm TWA: 30 mg/m ³ |
| Sodium Silicofluoride 0 - 10% | 16893-85-9 | TWA: 2.5 mg/m ³ |

Biological occupational exposure limits

| Chemical Name | CAS No | Australia |
|----------------------------------|------------|-----------|
| Propionic acid 0 - 10% | 79-09-4 | NDF |
| Sodium Silicofluoride 0 - 10% | 16893-85-9 | NDF |

Legend See section 16 for terms and abbreviations

Appropriate engineering controls

Engineering Controls Showers. Eyewash stations. Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin and body protection Wear protective gloves and protective clothing.

Respiratory protection Ensure adequate ventilation, especially in confined areas. In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Liquid

Gas Under Pressure Not classified according to GHS criteria

Appearance aqueous solution **Color** colorless

Odor Odorless **Odor threshold** No data available

| <u>Property</u> | <u>Values</u> | <u>Remarks • Method</u> |
|---|--|-------------------------|
| Molecular weight | No data available | |
| pH | 3.3 | |
| Melting point/freezing point | 0 °C / 32 °F | |
| Boiling point / boiling range | 100 °C / 212 °F | |
| Evaporation rate | 0.89 (water = 1) | |
| Vapor pressure | 17.477 mm Hg / 2.33 kPa at 20 °C / 68 °F | |
| Vapor density (air = 1) | 0.62 | |
| Specific gravity (water = 1 / air = 1) | 0.99 | |
| Partition Coefficient (n-octanol/water) | Not applicable | |
| Soil Organic Carbon-Water Partition Coefficient | Not applicable | |
| Autoignition temperature | No data available | |
| Decomposition temperature | No data available | |
| Dynamic viscosity | 1 cP (mPa s) at 20 °C / 68 °F | |
| Kinematic viscosity | 1.01 cSt (mm ² /s) at 20 °C / 68 °F | |

Solubility(ies)**Water solubility**

| <u>Water solubility classification</u> | <u>Water solubility</u> | <u>Water Solubility Temperature</u> |
|--|-------------------------|-------------------------------------|
| Soluble | > 1000 mg/L | 25 °C / 77 °F |

Solubility in other solvents

| <u>Chemical Name</u> | <u>Solubility classification</u> | <u>Solubility</u> | <u>Solubility Temperature</u> |
|-----------------------------|----------------------------------|-------------------|-------------------------------|
| Acid | Soluble | > 1000 mg/L | 25 °C / 77 °F |
| Most Polar Organic Solvents | Soluble | > 1000 mg/L | 25 °C / 77 °F |

Particle Size No information available

Particle Size Distribution No information available

Other Information

Metal Corrosivity Not classified as corrosive to metal according to GHS criteria

Steel Corrosion Rate No data available

Aluminum Corrosion Rate No data available

| | |
|----------------------------------|--|
| Bulk density | Not applicable |
| Explosive properties | Not classified according to GHS criteria. |
| Explosion data | No data available |
| Upper explosion limit | No data available |
| Lower explosion limit | No data available |
| Flammable properties | Not classified as flammable according to GHS criteria. |
| Flammability Limit in Air | |
| Upper flammability limit: | No data available |
| Lower flammability limit: | No data available |
| Flash point | No data available |
| Method | No information available |
| Oxidizing properties | Not classified according to GHS criteria. |
| Reactivity properties | Not classified as self-reactive, pyrophoric, self-heating or emitting flammable gases in contact with water according to GHS criteria. |

Section 10: STABILITY AND REACTIVITY

Reactivity

Reactivity properties Not classified as self-reactive, pyrophoric, self-heating or emitting flammable gases in contact with water according to GHS criteria.

Chemical stability

Stability Stable under normal conditions

Explosion data

Upper explosion limit No data available

Lower explosion limit No data available

Autoignition temperature

No data available

Sensitivity to Mechanical Impact

None.

Sensitivity to Static Discharge

None.

Possibility of Hazardous Reactions

Possibility of Hazardous Reactions None under normal processing.

Hazardous polymerization

Hazardous polymerization does not occur.

Conditions to avoid**Conditions to avoid**

Evaporation. Extreme temperatures. Excessive heat. Freezing conditions. Contact with acid or acid fumes. Incompatibles.

Incompatible materials**Incompatible materials**

May react violently in contact with: alkali metals. Strong acids. Strong bases.

Materials to avoid

Strong oxidizing agents. Strong acids. Strong bases.

Hazardous Decomposition Products

None known based on information supplied.

Section 11: TOXICOLOGICAL INFORMATION**Information on Likely Routes of Exposure**

| | |
|--|---|
| Product Information | Product does not present an acute toxicity hazard based on known or supplied information. |
| Inhalation | No known effect based on information supplied. |
| Eye contact | No known effect based on information supplied. |
| Skin contact | No known effect based on information supplied. |
| Ingestion | No known effect based on information supplied. |
| Aggravated Medical Conditions | None known. |
| Toxicologically synergistic products | None known. |
| Toxicokinetics, metabolism and distribution | No information available. |

Product Acute Toxicity Data**Oral Exposure Route** No data available**Dermal Exposure Route** No data available**Inhalation (Dust/Mist) Exposure Route** No data available**Inhalation (Vapor) Exposure Route** No data available**Inhalation (Gas) Exposure Route** No data available**Unknown Acute Toxicity**

0.105 % of the mixture consists of ingredient(s) of unknown toxicity.

Ingredient Acute Toxicity Data**Oral Exposure Route**

| Chemical Name | Endpoint type | Reported dose | Exposure time | Toxicological effects | Key literature references and sources for data |
|--|-------------------------|---------------|---------------|-----------------------|--|
| Propionic acid (0 - 10%) CAS#: 79-09-4 | Rat LD ₅₀ | 2600 mg/kg | None reported | None reported | IUCLID (The International Uniform Chemical Information Database) |
| Sodium Silicofluoride | Rat | 125 mg/kg | None | None reported | GESTIS (Information System) |

| | | | | | |
|-------------------------------|------------------|--|----------|--|--|
| (0 - 10%) CAS#: 16893-85-9 | LD ₅₀ | | reported | | on Hazardous Substances of the German Social Accident Insurance) |
|-------------------------------|------------------|--|----------|--|--|

Dermal Exposure Route

| Chemical Name | Endpoint type | Reported dose | Exposure time | Toxicological effects | Key literature references and sources for data |
|---|---------------|---------------|---------------|-----------------------|--|
| Sodium Silicofluoride (0 - 10%) CAS#: 16893-85-9 | None reported | None reported | None reported | None reported | No information available |

Inhalation (Dust/Mist) Exposure Route

| Chemical Name | Endpoint type | Reported dose | Exposure time | Toxicological effects | Key literature references and sources for data |
|---|---------------|---------------|---------------|-----------------------|--|
| Sodium Silicofluoride (0 - 10%) CAS#: 16893-85-9 | None reported | None reported | None reported | None reported | No information available |

Inhalation (Vapor) Exposure Route

| Chemical Name | Endpoint type | Reported dose | Exposure time | Toxicological effects | Key literature references and sources for data |
|---|---------------|---------------|---------------|-----------------------|--|
| Sodium Silicofluoride (0 - 10%) CAS#: 16893-85-9 | None reported | None reported | None reported | None reported | No information available |

Inhalation (Gas) Exposure Route

No data available

Product Skin Corrosion/Irritation Data

No data available.

Ingredient Skin Corrosion/Irritation Data

| Chemical Name | Test method | Species | Reported dose | Exposure time | Results | Key literature references and sources for data |
|---|----------------------|---------|---------------|---------------|-------------------|--|
| Propionic acid (0 - 10%) CAS#: 79-09-4 | Open Irritation Test | Rabbit | 495 mg | None reported | Corrosive to skin | RTECS (Registry of Toxic Effects of Chemical Substances) |
| Sodium Silicofluoride (0 - 10%) CAS#: 16893-85-9 | Standard Draize Test | Rabbit | 500 mg | None reported | Corrosive to skin | RTECS (Registry of Toxic Effects of Chemical Substances) |

Product Serious Eye Damage/Eye Irritation Data

No data available.

Ingredient Eye Damage/Eye Irritation Data

| Chemical Name | Test method | Species | Reported dose | Exposure time | Results | Key literature references and sources for data |
|---|----------------------|---------|---------------|---------------|-------------------|--|
| Propionic acid (0 - 10%) CAS#: 79-09-4 | Standard Draize Test | Rabbit | 0.99 mg | None reported | Corrosive to eyes | RTECS (Registry of Toxic Effects of Chemical Substances) |

| | | | | | | |
|--|-------------------------|----------------|--------------------------|--------------------------|-------------------|--|
| Sodium Silicofluoride (0 - 10%) CAS#: 16893-85-9 | Standard Draize Test | Rabbit | 100 mg | None reported | Corrosive to eyes | RTECS (Registry of Toxic Effects of Chemical Substances) |
| Chemical Name | Test method | Species | Reported dose | Exposure time | Results | Key literature references and sources for data |
| Sodium Silicofluoride (0 - 10%) CAS#: 16893-85-9 | Rinse Test | Rabbit | 100 mg | 4 seconds | Corrosive to eyes | RTECS (Registry of Toxic Effects of Chemical Substances) |

Sensitization Information

Product Sensitization Data

Skin Sensitization Exposure Route No data available.

Respiratory Sensitization Exposure Route No data available.

Ingredient Sensitization Data

Skin Sensitization Exposure Route Toxicological data for ingredients is not indicative of likely harm.

Respiratory Sensitization Exposure Route No data available.

Chronic Toxicity Information

Product Repeat Dose Toxicity Data

Oral Exposure Route No data available.

Dermal Exposure Route No data available.

Inhalation (Dust/Mist) Exposure Route No data available.

Inhalation (Vapor) Exposure Route No data available.

Inhalation (Gas) Exposure Route No data available.

Ingredient Repeat Dose Toxicity Data

Oral Exposure Route

| Chemical Name | Endpoint type | Reported dose | Exposure time | Toxicological effects | Key literature references and sources for data |
|--|-------------------------|------------------|------------------|---|--|
| Sodium Silicofluoride (0 - 10%) CAS#: 16893-85-9 | Rat TD _{Lo} | 248 mg/kg | 30 days | Biochemical Enzyme inhibition, induction, or change in blood or tissue levels (phosphatases) Kidney, Ureter, or Bladder Other changes in urine composition Musculoskeletal Other changes | RTECS (Registry of Toxic Effects of Chemical Substances) |

Dermal Exposure Route No data available

Inhalation (Dust/Mist) Exposure Route

| Chemical Name | Endpoint type | Reported dose | Exposure time | Toxicological effects | Key literature references and sources for data |
|---------------|------------------|------------------|------------------|-----------------------|---|
|---------------|------------------|------------------|------------------|-----------------------|---|

| | | | | | |
|--|-------|-------------|-----------|---|--|
| Sodium Silicofluoride (0 - 10%) CAS#: 16893-85-9 | Human | 0.0034 mg/L | 5110 days | Musculoskeletal Osteosclerosis | RTECS (Registry of Toxic Effects of Chemical Substances) |
|--|-------|-------------|-----------|---|--|

Inhalation (Vapor) Exposure Route No data available

Inhalation (Gas) Exposure Route No data available

| Chemical Name | CAS No | ACGIH | IARC | NTP | OSHA |
|-----------------------|------------|-------|---------|-----|------|
| Propionic acid | 79-09-4 | - | - | - | - |
| Sodium Silicofluoride | 16893-85-9 | - | Group 3 | - | X |

Legend

| | |
|---|----------------|
| ACGIH (American Conference of Governmental Industrial Hygienists) | Does not apply |
| IARC (International Agency for Research on Cancer) | Does not apply |
| NTP (National Toxicology Program) | Does not apply |
| OSHA (Occupational Safety and Health Administration of the US Department of Labor) | X - Present |

Product Carcinogenicity Data No data available

Oral Exposure Route No data available

Dermal Exposure Route No data available

Inhalation (Dust/Mist) Exposure Route No data available

Inhalation (Vapor) Exposure Route No data available

Inhalation (Gas) Exposure Route No data available

Ingredient Carcinogenicity Data

Oral Exposure Route No data available

Dermal Exposure Route No data available

Inhalation (Dust/Mist) Exposure Route No data available

Inhalation (Vapor) Exposure Route No data available

Inhalation (Gas) Exposure Route No data available

Product Germ Cell Mutagenicity *invitro* Data

No data available.

Ingredient Germ Cell Mutagenicity *invitro* Data

Toxicological data for ingredients is not indicative of likely harm.

Oral Exposure Route No data available

Dermal Exposure Route No data available

Inhalation (Dust/Mist) Exposure Route No data available

Inhalation (Vapor) Exposure Route No data available

Inhalation (Gas) Exposure Route No data available

Ingredient Germ Cell Mutagenicity *in vivo* Data

Oral Exposure Route No data available

Dermal Exposure Route No data available

Inhalation (Dust/Mist) Exposure Route No data available

Inhalation (Vapor) Exposure Route No data available

Inhalation (Gas) Exposure Route No data available

Oral Exposure Route No data available

Dermal Exposure Route No data available

Inhalation (Dust/Mist) Exposure Route No data available

Inhalation (Vapor) Exposure Route No data available

Inhalation (Gas) Exposure Route No data available

Ingredient Reproductive Toxicity Data

Oral Exposure Route No data available

Dermal Exposure Route No data available

Inhalation (Dust/Mist) Exposure Route No data available

Inhalation (Vapor) Exposure Route No data available

Inhalation (Gas) Exposure Route No data available

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity Based on the classification principles, not classified as hazardous to the environment.

Unknown Aquatic Toxicity 0 % of the mixture consists of component(s) of unknown hazards to the aquatic environment.

Product Ecological Data

Aquatic toxicity

Fish No data available

Crustacea No data available

Algae No data available

Terrestrial toxicity

Soil No data available

Vertebrates No data available

Invertebrates No data available

Ingredient Ecological Data

Aquatic toxicity

Fish

| Chemical Name | Exposure time | Species | Endpoint type | Reported dose | Key literature references and sources for data |
|--|---------------|----------------------------|------------------|---------------|--|
| Propionic acid (0 - 10%) CAS#: 79-09-4 | 96 hours | <i>Oncorhynchus mykiss</i> | LC ₅₀ | 51.0 mg/L | IUCLID (The International Uniform Chemical Information Database) |
| Sodium Silicofluoride (0 - 10%) CAS#: 16893-85-9 | 96 hours | <i>Lepomis macrochirus</i> | LC ₅₀ | 49 mg/L | PEEN (Pan European Ecological Network) |
| Chemical Name | Exposure time | Species | Endpoint type | Reported dose | Key literature references and sources for data |
| Propionic acid (0 - 10%) CAS#: 79-09-4 | 96 hours | <i>Pimephales promelas</i> | LC ₅₀ | > 1000 mg/L | IUCLID (The International Uniform Chemical Information Database) |

Crustacea

| Chemical Name | Exposure time | Species | Endpoint type | Reported dose | Key literature references and sources for data |
|--|---------------|----------------------|------------------|---------------|---|
| Propionic acid (0 - 10%) CAS#: 79-09-4 | 48 Hours | <i>Daphnia magna</i> | EC ₅₀ | 45.8 mg/L | IUCLID (The International Uniform Chemical Information Database) |
| Sodium Silicofluoride (0 - 10%) CAS#: 16893-85-9 | 48 Hours | <i>Daphnia magna</i> | EC ₅₀ | 35.4 mg/L | GESTIS (Information System on Hazardous Substances of the German Social Accident Insurance) |

Algae

| Chemical Name | Exposure time | Species | Endpoint type | Reported dose | Key literature references and sources for data |
|--|---------------|---------------------------------------|------------------|---------------|---|
| Sodium Silicofluoride (0 - 10%) CAS#: 16893-85-9 | 72 Hours | <i>Pseudokirchnerella subcapitata</i> | EC ₅₀ | 16.6 mg/L | GESTIS (Information System on Hazardous Substances of the German Social Accident Insurance) |

Terrestrial toxicity

Soil No data available

Vertebrates No data available

Invertebrates No data available

Other Information

Persistence and degradability

None known.

Product Biodegradability Data

No data available.

Ingredient Biodegradability Data

No data available

Bioaccumulation

If available, see ingredient data below.

Product Bioaccumulation Data

Test data reported below.

Ingredient Bioaccumulation Data

No data available

Additional information**Product Information****Partition Coefficient (n-octanol/water)**

Not applicable

Ingredient Information

| Chemical Name | Partition Coefficient (n-octanol/water) | Method |
|--|--|--------------------------|
| Propionic acid (0 - 10%) CAS#: 79-09-4 | log K _{ow} = .33 | No information available |

Mobility

Mobility in soil: High mobility. If available, see ingredient data below.

Product Information**Soil Organic Carbon-Water Partition Coefficient**

Not applicable

Ingredient Information

| Chemical Name | Soil Organic Carbon-Water Partition Coefficient | Method |
|--|--|--|
| Propionic acid (0 - 10%) CAS#: 79-09-4 | log K _{oc} = 0.34 | Estimation through KOCWIN v2.00 part of the Estimation Programs Interface (EPI) Suite™ |

Additional information**Water solubility****Product Information**

| <u>Water solubility classification</u> | <u>Water solubility</u> | <u>Water Solubility Temperature</u> |
|--|-------------------------|-------------------------------------|
| Soluble | > 1000 mg/L | 25 °C / 77 °F |

Ingredient Information

| Chemical Name | Water solubility classification | Water solubility | Water solubility temperature °C | Water solubility temperature °F |
|--|---------------------------------|------------------|---------------------------------|---------------------------------|
| Propionic acid (0 - 10%) CAS#: 79-09-4 | Soluble | > 1000 mg/L | 25 °C | 77 °F |
| Sodium Silicofluoride (0 - 10%) CAS#: 16893-85-9 | Slightly soluble | 6.4 mg/L | 20 °C | 68 °F |

Other adverse effects

No information available.

Section 13: DISPOSAL CONSIDERATIONS**Waste treatment methods****Waste from residues/unused products**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging

Do not reuse container. Working in a well-ventilated area,. Rinse three times with an appropriate solvent. Collect rinsate and dispose of according to local, state or federal regulations. Rinsate from empty containers may contain sufficient product to require disposal as hazardous waste in countries other than the US. Improper disposal or reuse of this container may be dangerous and illegal.

Section 14: TRANSPORT INFORMATION

ADG Not regulated

IATA Not regulated

IMDG Not regulated

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No information available

Section 15: REGULATORY INFORMATION**Regulatory information****National regulations****Australia**

Model Work Health and Safety Regulations

[NOHSC:2011(2003) National Code of Practice for the Preparation of Material Safety Data Sheets

Labelling of Workplace Hazardous Chemicals Code of Practice

See section 8 for national exposure control parameters

National pollutant inventory

Not subject to reporting

Banned and/or restricted

No Products Listed.

International Inventories

| | |
|----------------------|----------|
| TSCA | Complies |
| DSL/NDSL | Complies |
| INSQ | Complies |
| EINECS/ELINCS | Complies |
| ENCS | Complies |
| IECSC | Complies |
| KECL | Complies |
| PICCS | Complies |
| TCSI | Complies |
| AICS | Complies |
| NZIoC | Complies |

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

INSQ - National Inventory of Chemical Substances in Mexico

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

TCSI - Taiwan Chemical Substances Inventory

AICS - Australian Inventory of Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

International Regulations

Ozone-depleting substances (ODS) Not applicable

Persistent Organic Pollutants Not applicable

Export Notification requirements Not applicable

Section 16: Any other relevant information

Key or legend to abbreviations and acronyms used in the safety data sheet

| | |
|-------------------|--|
| <i>NIOSH IDLH</i> | <i>Immediately Dangerous to Life or Health</i> |
| <i>ACGIH</i> | <i>ACGIH (American Conference of Governmental Industrial Hygienists)</i> |
| <i>NDF</i> | <i>no data</i> |

Legend - Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

| | | | |
|---------|-----------------------------|---------|---|
| TWA | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Ceiling Limit Value | MAC | Maximum Allowable Concentration |
| X | Listed | Vacated | These values have no official status. The only binding levels of contaminants are those listed in the final OSHA PEL. These lists are for reference purposes only. Please note that |

some reference state regulations of these "liberated" exposure limits i

| | | | |
|------|---------------------------|------|-----------------------|
| SKN* | Skin designation | SKN+ | Skin sensitization |
| RSP+ | Respiratory sensitization | ** | Hazard Designation |
| C | Carcinogen | R | Reproductive toxicant |
| M | mutagen | | |

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Revision Date 15-Jul-2016

Revision Note

None

Disclaimer

USER RESPONSIBILITY: Each user should read and understand this information and incorporate it in individual site safety programs in accordance with applicable hazard communication standards and regulations.

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