

## 1. Product and Company Identification

<b>Product identifier</b>	<b>Whirl OUT</b>	
<b>Other means of identification</b>	Not available	
<b>Recommended use</b>	Cleaner	
<b>Recommended restrictions</b>	None known.	
<b>Manufacturer/Importer/Supplier/Distributor information</b>		
<b>Manufacturer</b>		
<b>Company name</b>	Iron Out dba Summit Brands	
<b>Address</b>	6714 Pointe Inverness Way Suite 200 Fort Wayne, IN 46804-7935 United States	
<b>Telephone</b>	Phone:	260-483-2519
<b>E-mail</b>	Not available.	
<b>Emergency phone number</b>	Emergency Phone:	1-800-424-9300 (CHEMTREC)

## 2. Hazards Identification

<b>Physical hazards</b>	Corrosive to metals	Category 1
<b>Health hazards</b>	Skin corrosion/irritation	Category 1
	Serious eye damage/eye irritation	Category 1
	Specific target organ toxicity, single exposure	Category 3 respiratory tract irritation
<b>Environmental hazards</b>	Not classified.	
<b>OSHA defined hazards</b>	Not classified.	

### Label elements



<b>Signal word</b>	Danger
<b>Hazard statement</b>	May be corrosive to metals. Causes severe skin burns and eye damage. May cause respiratory irritation.
<b>Precautionary statement</b>	
<b>Prevention</b>	Keep only in original packaging. Do not breathe dust. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves, protective clothing, eye protection and face protection.
<b>Response</b>	Absorb spillage to prevent material-damage. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor. Specific treatment (see information on this label). IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
<b>Storage</b>	Store locked up. Store in a corrosion resistant container with a resistant inner liner. Store in a well-ventilated place. Keep container tightly closed.
<b>Disposal</b>	Dispose of container in accordance with local, regional, national and international regulations.
<b>Hazard(s) not otherwise classified (HNOC)</b>	None known.
<b>Supplemental information</b>	Not applicable.

## 3. Composition/Information on Ingredients

### Mixtures

Chemical name	Common name and synonyms	CAS number	%
Sodium carbonate		497-19-8	40-70
Sodium metasilicate		6834-92-0	15-40
Sodium tripolyphosphate		7758-29-4	15-40
Sodium dichloroisocyanurate dihydrate		51580-86-0	1-5
Tetrasodium pyrophosphate		7722-88-5	0.5-1.5

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

**Composition comments** US GHS: The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

#### 4. First Aid Measures

<b>Inhalation</b>	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor.
<b>Skin contact</b>	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse. Specific treatment (see information on this label).
<b>Eye contact</b>	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 or doctor.
<b>Ingestion</b>	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.
<b>Most important symptoms/effects, acute and delayed</b>	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.
<b>Indication of immediate medical attention and special treatment needed</b>	Provide general supportive measures and treat symptomatically. Symptoms may be delayed.
<b>General information</b>	Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. If you feel unwell, seek medical advice (show the label where possible). Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Wear rubber gloves and chemical splash goggles. Keep out of reach of children.

#### 5. Fire Fighting Measures

<b>Suitable extinguishing media</b>	Treat for surrounding material.
<b>Unsuitable extinguishing media</b>	None known.
<b>Specific hazards arising from the chemical</b>	Firefighters should wear a self-contained breathing apparatus.
<b>Special protective equipment and precautions for firefighters</b>	Firefighters should wear full protective clothing including self-contained breathing apparatus.
<b>Fire fighting equipment/instructions</b>	In the event of fire, cool tanks with water spray.
<b>Specific methods</b>	Cool containers exposed to flames with water until well after the fire is out.

#### 6. Accidental Release Measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Keep unnecessary personnel away. Keep out of low areas. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
<b>Methods and materials for containment and cleaning up</b>	Stop the flow of material, if this is without risk. Dike far ahead of spill for later disposal. Absorb spillage to prevent material damage. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.
<b>Environmental precautions</b>	Avoid discharge into drains, water courses or onto the ground. Prevent entry into waterways, sewers, basements or confined areas.

#### 7. Handling and Storage

<b>Precautions for safe handling</b>	Avoid breathing dust. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash thoroughly after handling. Use good industrial hygiene practices in handling this material. Do not get in eyes, on skin or on clothing.
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**Conditions for safe storage, including any incompatibilities**

Store locked up. Store in a corrosion resistant container with a resistant inner liner. Store in a closed container away from incompatible materials. Keep only in the original container. Store in a cool, dry place out of direct sunlight. Store away from incompatible materials (see Section 10 of the SDS). Keep out of the reach of children.

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**8. Exposure Controls/Personal Protection**

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**Occupational exposure limits****US. NIOSH: Pocket Guide to Chemical Hazards**

<b>Components</b>	<b>Type</b>	<b>Value</b>
Tetrasodium pyrophosphate (CAS 7722-88-5)	TWA	5 mg/m3

**Biological limit values**

No biological exposure limits noted for the ingredient(s).

**Appropriate engineering controls**

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

**Individual protection measures, such as personal protective equipment****Eye/face protection**

Wear safety glasses with side shields (or goggles).

**Skin protection****Hand protection**

Rubber gloves. Confirm with a reputable supplier first.

**Other**

Wear appropriate chemical resistant clothing. As required by employer code.

**Respiratory protection**

Avoid inhalation of dust. Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. Respirator should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134), CAN/CSA-Z94.4 and ANSI's standard for respiratory protection (Z88.2).

**Thermal hazards**

Not applicable.

**General hygiene considerations**

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Use good industrial hygiene practices in handling this material.

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**9. Physical and Chemical Properties**

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<b>Appearance</b>	Powder
<b>Physical state</b>	Solid.
<b>Form</b>	Powder
<b>Color</b>	White with gray specs
<b>Odor</b>	Not available.
<b>Odor threshold</b>	Not available.
<b>pH</b>	11.8 (1% @ 20°C)
<b>Melting point/freezing point</b>	Not available.
<b>Initial boiling point and boiling range</b>	Not applicable
<b>Pour point</b>	Not available.
<b>Specific gravity</b>	Not available.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Flash point</b>	None
<b>Evaporation rate</b>	Not applicable
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	Not applicable
<b>Flammability limit - upper (%)</b>	Not applicable
<b>Explosive limit - lower (%)</b>	Not available.
<b>Explosive limit - upper (%)</b>	Not available.
<b>Vapor pressure</b>	Not applicable
<b>Vapor density</b>	Not applicable
<b>Relative density</b>	Not available.

<b>Solubility(ies)</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not available.
<b>Other information</b>	
<b>Bulk density</b>	0.84 - 0.94 g/mL (Typical)

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## 10. Stability and Reactivity

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<b>Reactivity</b>	Reacts vigorously with acids. This product may react with oxidizing agents.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization does not occur.
<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Conditions to avoid</b>	Reacts violently with strong acids. This product may react with oxidizing agents. Do not mix with other chemicals.
<b>Incompatible materials</b>	Oxidizing agents. Acids. Caustics. Reducing agents.
<b>Hazardous decomposition products</b>	May include and are not limited to: Oxides of carbon. Oxides of nitrogen. Hydrogen chloride. Oxides of phosphorus.

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## 11. Toxicological Information

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### Information on likely routes of exposure

<b>Inhalation</b>	Prolonged inhalation may be harmful. May cause irritation to the respiratory system.
<b>Skin contact</b>	Causes severe skin burns.
<b>Eye contact</b>	Causes serious eye damage.
<b>Ingestion</b>	Causes digestive tract burns.

**Symptoms related to the physical, chemical and toxicological characteristics** Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

### Information on toxicological effects

**Acute toxicity** May cause respiratory irritation.

Components	Species	Test Results
Sodium carbonate (CAS 497-19-8)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	> 2000 mg/kg, ECHA
	Rat	> 2000 mg/kg, ECHA
<i>Inhalation</i>		
LC50	Guinea pig	800 mg/m <sup>3</sup> , 2 Hours, ECHA
		0.8 mg/L, 2 Hours
	Mouse	1200 mg/m <sup>3</sup> , 2 Hours, ECHA
		1.2 mg/L, 2 Hours
	Rat	2300 mg/m <sup>3</sup> , 2 Hours, ECHA
		2.3 mg/L, 2 Hours
<i>Oral</i>		
LD50	Rat	4090 mg/kg, RTECS
		2800 mg/kg, ECHA, HSDB
Sodium dichloroisocyanurate dihydrate (CAS 51580-86-0)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	> 3160 mg/kg, CCOHS
		> 2000 mg/kg, CCOHS
	Rat	> 5000 mg/kg, ECHA
<i>Inhalation</i>		
LC50	Rat	0.3 - 1.2 mg/L, 4 Hours, ECHA

Components	Species	Test Results
<i>Oral</i> LD50	Rat	2094 mg/kg, ECHA
		1823 mg/kg, ECHA
		1671 mg/kg, ECHA
		1420 mg/kg, CCOHS
Sodium metasilicate (CAS 6834-92-0)		
<b>Acute</b> <i>Dermal</i> LD50	Rat	> 5000 mg/kg, 24 Hours
<i>Inhalation</i> LC50	Rat	> 2.1 mg/L, 4 Hours
<i>Oral</i> LD50	Mouse	770 - 820 mg/kg, ECHA
		666.7 - 1008.6 mg/kg, ECHA
		2400 mg/kg, Patty's Industrial Hygiene and Toxicology
		770 - 820 mg/kg, ECHA
		666.7 - 1008.6 mg/kg, ECHA
		661.5 - 896.3 mg/kg
	Rat	1189.6 - 1530 mg/kg, ECHA
		1152 - 1349 mg/kg, ECHA
		1280 mg/kg, Patty's Industrial Hygiene and Toxicology
		1189.6 - 1530 mg/kg, ECHA
		1152 - 1349 mg/kg, ECHA
		994.7 - 1335.9 mg/kg
Sodium tripolyphosphate (CAS 7758-29-4)		
<b>Acute</b> <i>Dermal</i> LD50	Rabbit	> 4640 mg/kg, 24 Hours
<i>Inhalation</i> LC50	Rat	> 0.4 mg/L, 4 Hours
<i>Oral</i> LD50	Mouse	3150 mg/kg
	Rat	> 2000 mg/kg
		6340 mg/kg, ECHA
		5010 mg/kg, ECHA
		4750 mg/kg, ECHA
		3000 mg/kg, ECHA
		2300 mg/kg, ECHA
Tetrasodium pyrophosphate (CAS 7722-88-5)		
<b>Acute</b> <i>Dermal</i> LD50	Rabbit	> 2000 mg/kg, 24 Hours, ECHA
	Rat	> 2000 mg/kg, 24 Hours, ECHA
		> 2 mg/kg, 24 Hours, ECHA
		7940 mg/kg, Sigma Aldrich
<i>Inhalation</i> LC50	Rat	> 1.1 mg/L, 4 Hours, ECHA
		> 0.6 mg/L, 4 Hours, ECHA

Components	Species	Test Results
Oral LD50	Rat	300 - 2000 mg/kg, ECHA
		> 2 mg/kg, ECHA
		1624 mg/kg, ECHA
<b>Skin corrosion/irritation</b>	Causes severe skin burns and eye damage.	
Exposure minutes	Not available.	
Erythema value	Not available.	
Oedema value	Not available.	
<b>Serious eye damage/eye irritation</b>	Causes serious eye damage.	
Corneal opacity value	Not available.	
Iris lesion value	Not available.	
Conjunctival reddening value	Not available.	
Conjunctival oedema value	Not available.	
Recover days	Not available.	
<b>Respiratory or skin sensitization</b>		
Respiratory sensitization	Not available.	
Skin sensitization	This product is not expected to cause skin sensitization.	
<b>Germ cell mutagenicity</b>	Non-hazardous by OSHA criteria.	
<b>Carcinogenicity</b>	Not classified or listed by IARC, NTP, OSHA and ACGIH.	
<b>IARC Monographs. Overall Evaluation of Carcinogenicity</b>	Not listed.	
<b>US. National Toxicology Program (NTP) Report on Carcinogens</b>	Not listed.	
<b>US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)</b>	Not regulated.	
<b>Reproductive toxicity</b>	Non-hazardous by OSHA criteria.	
<b>Specific target organ toxicity - single exposure</b>	Respiratory tract irritation.	
<b>Specific target organ toxicity - repeated exposure</b>	Not classified.	
<b>Aspiration hazard</b>	Not available.	
<b>Chronic effects</b>	Prolonged inhalation may be harmful.	
<b>Further information</b>	Not available.	

## 12. Ecological Information

**Ecotoxicity** Components of this product have been identified as having potential environmental concerns.

### Ecotoxicological data

Components	Species	Test Results
Sodium carbonate (CAS 497-19-8)		
Crustacea	EC50 Daphnia	265 mg/L, 48 Hours
<b>Aquatic</b>		
Crustacea	EC50 Water flea (Ceriodaphnia dubia)	156.6 - 298.9 mg/L, 48 hours
Fish	LC50 Bluegill (Lepomis macrochirus)	300 mg/L, 96 hours
Sodium dichloroisocyanurate dihydrate (CAS 51580-86-0)		
<b>Aquatic</b>		
Crustacea	EC50 Water flea (Daphnia magna)	0.15 mg/L, 48 hours
Fish	LC50 Rainbow trout, donaldson trout (Oncorhynchus mykiss)	0.29 mg/L, 96 hours
Sodium metasilicate (CAS 6834-92-0)		
<b>Aquatic</b>		
Crustacea	EC50 Water flea (Ceriodaphnia dubia)	0.28 - 0.57 mg/L, 48 hours

Components	Species	Test Results
Fish LC50	Western mosquitofish ( <i>Gambusia affinis</i> )	1800 mg/L, 96 hours
Sodium tripolyphosphate (CAS 7758-29-4)		
<b>Aquatic</b>		
Crustacea EC50	Water flea ( <i>Ceriodaphnia dubia</i> )	238.35 - 321.01 mg/L, 48 hours
Tetrasodium pyrophosphate (CAS 7722-88-5)		
<b>Aquatic</b>		
Fish LC50	Western mosquitofish ( <i>Gambusia affinis</i> )	1380 mg/L, 96 hours
<b>Persistence and degradability</b>	No data is available on the degradability of this product.	
<b>Bioaccumulative potential</b>	No data available.	
<b>Mobility in soil</b>	No data available.	
<b>Mobility in general</b>	Not available.	
<b>Other adverse effects</b>	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.	

### 13. Disposal Considerations

<b>Disposal instructions</b>	Review federal, state/provincial, and local government requirements prior to disposal. Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Incinerate the material under controlled conditions in an approved incinerator. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container.
<b>Local disposal regulations</b>	Dispose in accordance with all applicable regulations.
<b>Hazardous waste code</b>	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
<b>Waste from residues / unused products</b>	Dispose of in accordance with local regulations. 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).
<b>Contaminated packaging</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

### 14. Transport Information

#### U.S. Department of Transportation (DOT)

##### Basic shipping requirements:

<b>UN number</b>	UN3262
<b>Proper shipping name</b>	Corrosive solid, basic, inorganic, n.o.s.
<b>Technical name</b>	Sodium metasilicate
<b>Hazard class</b>	8
<b>Subsidiary hazard class</b>	Limited Quantity - US
<b>Packing group</b>	III
<b>Special provisions</b>	IB8, IP3, T1, TP33
<b>Packaging exceptions</b>	<11 lbs - Limited Quantity
<b>Packaging non bulk</b>	213
<b>Packaging bulk</b>	240

DOT



### 15. Regulatory Information

<b>US federal regulations</b>	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
<b>TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)</b>	Not regulated.

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

Not listed.

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not regulated.

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

**Hazard categories** Immediate Hazard - Yes  
Delayed Hazard - No  
Fire Hazard - No  
Pressure Hazard - No  
Reactivity Hazard - No

**SARA 302 Extremely hazardous substance** No

**SARA 311/312 Hazardous chemical** No

**SARA 313 (TRI reporting)**  
Not regulated.

**Other federal regulations**

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

Not regulated.

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

Not regulated.

**Clean Water Act (CWA) Section 112(r) (40 CFR 68.130)** Hazardous substance

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

**Food and Drug Administration (FDA)** Not regulated.

**US state regulations** See below

**US - Illinois Chemical Safety Act: Listed substance**

Sodium tripolyphosphate (CAS 7758-29-4)

**US - Louisiana Spill Reporting: Listed substance**

Sodium tripolyphosphate (CAS 7758-29-4) Listed.

**US - Minnesota Haz Subs: Listed substance**

Tetrasodium pyrophosphate (CAS 7722-88-5) TETRASODIUM PYROPHOSPHATE

**US - New Jersey RTK - Substances: Listed substance**

Sodium dichloroisocyanurate dihydrate (CAS 51580-86-0)

Tetrasodium pyrophosphate (CAS 7722-88-5)

**US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)**

Not listed.

**US. Massachusetts RTK - Substance List**

Sodium dichloroisocyanurate dihydrate (CAS 51580-86-0)

Sodium tripolyphosphate (CAS 7758-29-4)

Tetrasodium pyrophosphate (CAS 7722-88-5)

**US. New Jersey Worker and Community Right-to-Know Act**

Not regulated.

**US. Pennsylvania RTK - Hazardous Substances**

Sodium dichloroisocyanurate dihydrate (CAS 51580-86-0)

Sodium tripolyphosphate (CAS 7758-29-4)

Tetrasodium pyrophosphate (CAS 7722-88-5)

**US. Pennsylvania Worker and Community Right-to-Know Law**

Sodium dichloroisocyanurate dihydrate (CAS 51580-86-0)

Sodium tripolyphosphate (CAS 7758-29-4)

Tetrasodium pyrophosphate (CAS 7722-88-5)

**US. Rhode Island RTK**

Sodium dichloroisocyanurate dihydrate (CAS 51580-86-0)

Tetrasodium pyrophosphate (CAS 7722-88-5)

**US. California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.



Country(s) or region

Inventory name

On inventory (yes/no)\*

United States & Puerto Rico

Toxic Substances Control Act (TSCA) Inventory

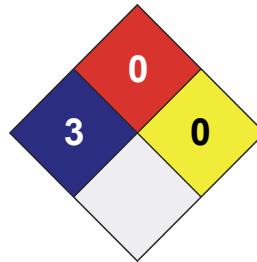
Yes

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)

### 16. Other Information

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

HEALTH	/	3
FLAMMABILITY		0
PHYSICAL HAZARD		0
PERSONAL PROTECTION		X



**Disclaimer**

The data contained in this material safety data sheet was obtained from sources that were technically accurate, reliable, and state of the art when this document was prepared. If data was unavailable to complete certain sections, the absence of that data is identified in this document. Because the supplier cannot know the exact circumstances during actual use of this product, other hazards, exposure scenarios, disposal considerations, and regulations may apply and it is the responsibility of the user to read and understand the product label and this document before use. Do not use the product for purposes other than those stated in Section 1.

**Issue date**

30-November-2018

**Revision date**

30-November-2018

**Version #**

02

**Further information**

For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document.

**Other information**

This Safety Data Sheet was prepared to comply with the current OSHA Hazard Communication Standard (HCS) adoption of the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Redbook revision # 7, 3/19/18

**Prepared by**

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