



# SAFETY DATA SHEET

## 1. Product and Company Identification

<b>Product identifier</b>	<b>IMS Daily Clean</b>
<b>Other means of identification</b>	IMS-1218, IMS-1220
<b>Recommended use</b>	General Purpose Cleaner
<b>Recommended restrictions</b>	None known.
<b>Manufacturer</b>	Hu-Friedy Mfg. Co., LLC 3232 N. Rockwell St. Chicago, IL 60618-5982 US Phone: 773.975.6100 Fax: 773.868.3599 Emergency Phone: 1-800-535-5053 Outside US: 001-352-323-3500

## 2. Hazards Identification

<b>Physical hazards</b>	Not classified.	
<b>Health hazards</b>	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2A
<b>Environmental hazards</b>	Not classified.	
<b>OSHA defined hazards</b>	Not classified.	

### Label elements



<b>Signal word</b>	Warning
<b>Hazard statement</b>	Causes skin irritation. Causes serious eye irritation.
<b>Precautionary statement</b>	
<b>Prevention</b>	Wash hands thoroughly after handling. Wear protective gloves. Wear eye/face protection.
<b>Response</b>	If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Specific treatment (see this label). Take off contaminated clothing and wash before reuse. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention.
<b>Storage</b>	Store away from incompatible materials.
<b>Disposal</b>	Dispose of waste and residues in accordance with local authority requirements.
<b>Hazard(s) not otherwise classified (HNOC)</b>	None known.
<b>Supplemental information</b>	Not applicable.

## 3. Composition/Information on Ingredients

### Mixture

<b>Chemical name</b>	<b>Common name and synonyms</b>	<b>CAS number</b>	<b>%</b>
Sodium carbonate		497-19-8	30 - 60
Sodium tripolyphosphate		7758-29-4	10 - 30
Sodium bicarbonate		144-55-8	7 - 13
Urea		57-13-6	5 - 10
Sodium sulfate		7757-82-6	3 - 7
Cocamidopropyl hydroxysultaine		68139-30-0	1 - 5
Sodium dodecylbenzene sulfonate		25155-30-0	1 - 5

<b>Composition comments</b>	The exact % concentration of composition has been withheld as a trade secret in accordance with paragraph (i) of the OSHA HCS 1910.1200.
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#### 4. First Aid Measures

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<b>Inhalation</b>	If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.
<b>Skin contact</b>	If on skin: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Specific treatment (see product 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. If eye irritation persists: Get medical advice/attention.
<b>Ingestion</b>	Rinse mouth. Do not induce vomiting. Never give anything by mouth if victim is unconscious, or is convulsing. Call a poison control center or doctor for treatment advice.
<b>Most important symptoms/effects, acute and delayed</b>	Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.
<b>Indication of immediate medical attention and special treatment needed</b>	Treat patient symptomatically.
<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. Keep out of reach of children.

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#### 5. Fire Fighting Measures

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<b>Suitable extinguishing media</b>	Water. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).
<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. Cool containers with flooding quantities of water until well after fire is out.
<b>Specific methods</b>	Cool containers exposed to flames with water until well after the fire is out.
<b>General fire hazards</b>	No unusual fire or explosion hazards noted.
<b>Hazardous combustion products</b>	May include and are not limited to: Oxides of carbon. Oxides of nitrogen. Oxides of sodium. Oxides of phosphorus. Oxides of sulfur.
<b>Explosion data</b>	
<b>Sensitivity to mechanical impact</b>	Not available.
<b>Sensitivity to static discharge</b>	Not available.

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#### 6. Accidental Release Measures

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<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>	This product is miscible in water. Stop the flow of material, if this is without risk. 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>	Do not discharge into lakes, streams, ponds or public waters.

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#### 7. Handling and Storage

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<b>Precautions for safe handling</b>	Avoid breathing dust. Avoid contact with eyes and skin. Use good industrial hygiene practices in handling this material. Wear appropriate personal protective equipment. Use only with adequate ventilation. When using do not eat or drink. Wash thoroughly after handling. Keep container tightly closed. Avoid prolonged exposure.
<b>Conditions for safe storage, including any incompatibilities</b>	Store away from incompatible materials (see Section 10 of the SDS). Keep out of reach of children.

## 8. Exposure Controls/Personal Protection

### Occupational exposure limits

#### US. AIHA Workplace Environmental Exposure Level (WEEL) Guides

Components	Type	Value	Form
Urea (CAS 57-13-6)	TWA	10 mg/m3	Total particulate.

### Biological limit values

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

### Exposure guidelines

Chemicals listed in section 3 that are not listed here do not have established limit values for ACGIH or OSHA PEL.

### Appropriate engineering controls

Ensure adequate ventilation.

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

#### Eye/face protection

Wear safety glasses with side shields (or goggles).

#### Skin protection

##### Hand protection

Wear appropriate chemical resistant gloves. Confirm with a reputable supplier first.

##### Other

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

#### Respiratory protection

Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.

#### Thermal hazards

Not available.

### 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. Wash hands before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink.

## 9. Physical and Chemical Properties

**Appearance** Granular to powdered solid

**Physical state** Solid.

**Form** Free flowing solid

**Color** White

**Odor** None

**Odor threshold** Not available.

**pH** 10 - 11 (1%)

**Melting point/freezing point** Not available.

**Initial boiling point and boiling range** Not applicable.

**Pour point** Not available.

**Specific gravity** Not available.

**Partition coefficient (n-octanol/water)** Not available.

**Flash point** Not available.

**Evaporation rate** Not available.

**Flammability (solid, gas)** Not applicable.

### Upper/lower flammability or explosive limits

**Flammability limit - lower (%)** Not available.

**Flammability limit - upper (%)** Not available.

**Explosive limit - lower (%)** Not available.

**Explosive limit - upper (%)** Not available.

**Vapor pressure** Not available.

**Vapor density** Not available.

**Relative density** Not available.

**Solubility(ies)** Soluble in cold and hot water

**Auto-ignition temperature** Not available.

**Decomposition temperature** Not available.

**Viscosity** Not applicable.

## 10. Stability and Reactivity

<b>Reactivity</b>	May react with incompatible materials.
<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>	Contact with incompatible materials.
<b>Incompatible materials</b>	Strong oxidizing agents. Acids. May also include and are not limited to: Bleach solutions. Calcium hypochlorite. Sodium hypochlorite. Phosphorus pentoxide. Fluorine. Aluminum. Zinc.
<b>Hazardous decomposition products</b>	May include and are not limited to: Oxides of carbon. Oxides of nitrogen. Oxides of sodium. Oxides of phosphorus. Sulfur oxide. Ammonia. Cyanuric acid. Cyanic acid

## 11. Toxicological Information

<b>Routes of exposure</b>	Eye, Skin contact, Ingestion. Inhalation.
<b>Information on likely routes of exposure</b>	
<b>Ingestion</b>	Expected to be a low ingestion hazard.
<b>Inhalation</b>	May cause irritation to the respiratory system.
<b>Skin contact</b>	Causes skin irritation.
<b>Eye contact</b>	Causes serious eye irritation.
<b>Symptoms related to the physical, chemical and toxicological characteristics</b>	Symptoms may include stinging, tearing, redness, swelling of the eyes, and blurred vision. Skin irritation. May cause redness and pain.

### Information on toxicological effects

#### Acute toxicity

Product	Species	Test Results
IMS Daily Clean (CAS Mixture)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Not available	29898 mg/kg
<i>Oral</i>		
LD50	Not available	3332.9 mg/kg
<b>Components</b>	<b>Species</b>	<b>Test Results</b>
Cocamidopropyl hydroxysultaine (CAS 68139-30-0)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Not available	
<i>Inhalation</i>		
LC50	Not available	
<i>Oral</i>		
LD50	Rat	5600 mg/kg
Sodium bicarbonate (CAS 144-55-8)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Not available	
<i>Inhalation</i>		
LC50	Rat	> 4.7 mg/l
<i>Oral</i>		
LD50	Mouse	3360 mg/kg
	Rat	4220 mg/kg
Sodium carbonate (CAS 497-19-8)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rat	> 2000 mg/kg
<i>Inhalation</i>		
LC50	Guinea pig	400 mg/m3

Components	Species	Test Results
		0.8 mg/l, 2 Hours
	Mouse	1.2 mg/l, 2 Hours
	Rat	2.3 mg/l, 2 Hours
<i>Oral</i> LD50	Rat	4090 mg/kg
Sodium dodecylbenzene sulfonate (CAS 25155-30-0)		
<b>Acute</b>		
<i>Dermal</i> LD50	Rat	2700 mg/kg
<i>Inhalation</i> LC50	Not available	
<i>Oral</i> LD50	Rat	438 mg/kg
Sodium sulfate (CAS 7757-82-6)		
<b>Acute</b>		
<i>Dermal</i> LD50	Rat	4000 mg/kg
<i>Inhalation</i> LC50	Not available	
<i>Oral</i> LD50	Mouse	5989 mg/kg
	Rat	10000 mg/kg
Sodium tripolyphosphate (CAS 7758-29-4)		
<b>Acute</b>		
<i>Dermal</i> LD50	Rabbit	7940 mg/kg
<i>Inhalation</i> LC50	Not available	
<i>Oral</i> LD50	Rat	3100 mg/kg
Urea (CAS 57-13-6)		
<b>Acute</b>		
<i>Dermal</i> LD50	Rabbit	21000 mg/kg
<i>Inhalation</i> LC50	Not available	
<i>Oral</i> LD50	Cattle	510 mg/kg
	Mouse	11000 mg/kg
	Rat	8471 mg/kg
	Sheep	510 mg/kg
<b>Skin corrosion/irritation</b>	Causes skin irritation.	
<b>Exposure minutes</b>	Not available.	
<b>Erythema value</b>	Not available.	
<b>Oedema value</b>	Not available.	
<b>Serious eye damage/eye irritation</b>	Causes serious eye irritation.	
<b>Corneal opacity value</b>	Not available.	
<b>Iris lesion value</b>	Not available.	
<b>Conjunctival reddening value</b>	Not available.	
<b>Conjunctival oedema value</b>	Not available.	
<b>Recover days</b>	Not available.	

**Respiratory or skin sensitization**

<b>Respiratory sensitization</b>	Not available.
<b>Skin sensitization</b>	This product is not expected to cause skin sensitization.
<b>Germ cell mutagenicity</b>	Non-hazardous by WHMIS/OSHA criteria.
<b>Mutagenicity</b>	Non-hazardous by WHMIS/OSHA criteria.
<b>Carcinogenicity</b>	Non-hazardous by WHMIS/OSHA criteria.
<b>Reproductive toxicity</b>	Non-hazardous by WHMIS/OSHA criteria.
<b>Teratogenicity</b>	Non-hazardous by WHMIS/OSHA criteria.
<b>Specific target organ toxicity - single exposure</b>	Not classified.
<b>Specific target organ toxicity - repeated exposure</b>	Not classified.
<b>Aspiration hazard</b>	Not classified.
<b>Chronic effects</b>	Non-hazardous by WHMIS/OSHA criteria.
<b>Further information</b>	Not available.
<b>Name of Toxicologically Synergistic Products</b>	Not available.

**12. Ecological Information**

<b>Ecotoxicity</b>	See below		
<b>Components</b>		<b>Species</b>	<b>Test Results</b>
Sodium bicarbonate (CAS 144-55-8)			
Crustacea	EC50	Daphnia	2350 mg/L, 48 Hours
<b>Aquatic</b>			
Fish	LC50	Western mosquitofish (Gambusia affinis)	7550 mg/l, 96 hours
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 dodecylbenzene sulfonate (CAS 25155-30-0)			
<b>Aquatic</b>			
Crustacea	EC50	Water flea (Ceriodaphnia dubia)	3.26 - 14.51 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	3.2 - 5.6 mg/l, 96 hours
Sodium sulfate (CAS 7757-82-6)			
Crustacea	EC50	Daphnia	630 mg/L, 48 Hours
<b>Aquatic</b>			
Fish	LC50	Striped bass (Morone saxatilis)	790 mg/l, 96 hours
Sodium tripolyphosphate (CAS 7758-29-4)			
<b>Aquatic</b>			
Crustacea	EC50	Water flea (Ceriodaphnia dubia)	238.35 - 321.01 mg/l, 48 hours
Urea (CAS 57-13-6)			
Crustacea	EC50	Daphnia	10000 mg/L, 48 Hours
<b>Aquatic</b>			
Crustacea	EC50	Water flea (Daphnia magna)	3910 mg/l, 48 hours
Fish	LC50	Giant gourami (Colisa fasciata)	5 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.		

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### 13. Disposal Considerations

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<b>Disposal instructions</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.
<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.

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### 14. Transport Information

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

Not regulated as dangerous goods.

In accordance with the UN Classification Procedures, Test Methods and Criteria; Part 3, Section 37.4.1.1 - Test C.1 - Corrosion to Metals.

#### Transportation of Dangerous Goods (TDG - Canada)

Not regulated as dangerous goods.

In accordance with the UN Classification Procedures, Test Methods and Criteria; Part 3, Section 37.4.1.1 - Test C.1 - Corrosion to Metals.

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### 15. Regulatory Information

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<b>Canadian federal regulations</b>	This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.
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#### Canada WHMIS Ingredient Disclosure: Threshold limits

Sodium carbonate (CAS 497-19-8)	1 %
Sodium dodecylbenzene sulfonate (CAS 25155-30-0)	1 %

<b>WHMIS status</b>	Controlled
<b>WHMIS classification</b>	Class D - Division 2B
<b>WHMIS labeling</b>	



<b>US federal regulations</b>	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
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#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

#### US CWA Section 311 Hazardous Substances: Listed substance

Sodium dodecylbenzene sulfonate (CAS 25155-30-0)	Listed.
Sodium tripolyphosphate (CAS 7758-29-4)	Listed.

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

Sodium dodecylbenzene sulfonate (CAS 25155-30-0)	Listed.
Sodium tripolyphosphate (CAS 7758-29-4)	Listed.

#### US CAA Section 111 Volatile Organic Compounds: Listed substance

Urea (CAS 57-13-6)	Listed.
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#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

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

Not regulated.

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

<b>Hazard categories</b>	Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No
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<b>SARA 302 Extremely hazardous substance</b>	No
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**SARA 311/312 Hazardous chemical** No

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

**Other federal regulations**

**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**

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm. 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.

**US - California Hazardous Substances (Director's): Listed substance**

Sodium dodecylbenzene sulfonate (CAS 25155-30-0) Listed.

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

**US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance**

Not listed.

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

Sodium dodecylbenzene sulfonate (CAS 25155-30-0) Listed.

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

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

Sodium dodecylbenzene sulfonate (CAS 25155-30-0) Listed.

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

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

Urea (CAS 57-13-6) Listed.

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

Sodium dodecylbenzene sulfonate (CAS 25155-30-0) Listed.

**US - New York Release Reporting: Hazardous Substances: Listed substance**

Sodium dodecylbenzene sulfonate (CAS 25155-30-0) Listed.

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

**US - Texas Effects Screening Levels: Listed substance**

Cocamidopropyl hydroxysultaine (CAS 68139-30-0) Listed.

Sodium bicarbonate (CAS 144-55-8) Listed.

Sodium carbonate (CAS 497-19-8) Listed.

Sodium dodecylbenzene sulfonate (CAS 25155-30-0) Listed.

Sodium sulfate (CAS 7757-82-6) Listed.

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

Urea (CAS 57-13-6) Listed.

**US. Massachusetts RTK - Substance List**

Sodium dodecylbenzene sulfonate (CAS 25155-30-0) Listed.

Sodium sulfate (CAS 7757-82-6) Listed.

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

**US. Pennsylvania RTK - Hazardous Substances**

Sodium dodecylbenzene sulfonate (CAS 25155-30-0) Listed.

Sodium sulfate (CAS 7757-82-6) Listed.

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

**US. Rhode Island RTK**

Sodium dodecylbenzene sulfonate (CAS 25155-30-0) Listed.

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

**Inventory status**

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes



**Country(s) or region**

Canada

**Inventory name**

Non-Domestic Substances List (NDSL)

**On inventory (yes/no)\***

No

United States &amp; Puerto Rico

Toxic Substances Control Act (TSCA) Inventory

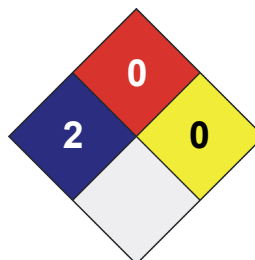
Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

**16. Other Information**

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

HEALTH	/ 2
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	X

**Disclaimer**

The information in the sheet was written based on the best knowledge and experience currently available. Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

**Issue date**

24-April-2015

**Effective date**

15-April-2015

**Expiry date**

15-April-2018

**Further information**

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

**Prepared by**

Dell Tech Laboratories, Ltd. Phone: (519) 858-5021

**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).  
This SDS conforms to the ANSI Z400.1/Z129.1-2010 Standard.