



SAFETY DATA SHEET

SONASPRAY FC, K-13

Prepared to U.S. OSHA, CMA, ANSI, Canadian WHMIS Standards, Australian WorkSafe, Japanese Industrial Standard JIS Z 7250:2000, and European Directives

1. PRODUCT IDENTIFICATION

1.1 TRADE NAME (AS LABELED):

SONASPRAY FC, K-13

SYNONYMS:

Cellulose Fiber Treated with Fire Retardants

CAS#:

Mixture

1.2 PRODUCT USE:

Insulation

1.3 MANUFACTURER'S NAME (North America):

International Cellulose Corporation

ADDRESS:

12315 Robin Boulevard, Houston, TX 77045

BUSINESS PHONE#:

1-713-433-6701

1-800-444-1252 (U.S./Canada Only)

1-713-433-6701 7 AM–6 PM (CST)

EMERGENCY PHONE#:

www.spray-on.com

WEBSITE:

icc@spray-on.com

EMAIL:

1.4 PREPARATION INFORMATION:

September 3, 2023

DATE OF CURRENT REVISION:

December 10, 2019

2. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW:

Product Description: These products are odorless, fibrous solids that come in a variety of colors. Fire retardants are blended with cellulose fiber.

Health Hazards: This product may cause eye irritation.

Flammability Hazards: These products have fire retardants in them to prevent or delay combustion. If involved in a fire for a prolonged period of time, these products may combust.

Reactivity Hazards: Negligible.

Environmental Hazards: Emergency responders must wear the proper personal protective equipment (and have appropriate fire-suppression equipment) suitable for the situation to which they are responding.

2.1 CLASSIFICATION OF SUBSTANCE OR MIXTURE IN ACCORDANCE WITH 29 CFR 1200 (OSHA HCS) AND THE EUROPEAN UNION DIRECTIVES:

This product meets the definition of a hazardous substance or preparation as defined by 29 CFR 1910.1200 and regulation (EU) No. 2020/878 and regulation (EC) No. 1272/2008.

Classification of the substance or mixture

EC# 265-158-7 Index: 694-468-00-3 (Severely Hydrotreated with less than 3 % DMSO extract as measured by IP 346)

EC# 233-139-2 Index: 005-007-00-2

EC# 232-674-9 This substance is not classified in the Annex VI

EC# 215-540-4 Index: 005-011-00-4

Substances not listed either individually or in group entries must be self classified.

Component(s) Contributing to Classification(s)

Sodium Borate

2.2 LABEL ELEMENTS:

EUROPEAN and (GHS) Hazard Symbols



Signal Word: Warning

GHS Hazard Classification(s):

Eye Irritant Category 2A

Hazard Statement(s):

H319 Causes serious eye irritation



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Prevention Statement(s):

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response Statement(s):

P305+351+338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

Storage Statement(s):

None Applicable

Disposal Statement(s):

None Applicable

2.3 OTHER HAZARDS:

Mixture does not meet the criteria for PBT or vPvB in accordance with Annex XIII.

Endocrine Disruptor Information: This product does not contain chemicals on the Candidate List of substances of very high concern for Authorisation.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Hazardous Ingredients:	WT%	CAS#	EINECS #	GHS Hazard Classification(s)
Sodium Borate	1.0 – 5.0	1303-96-4	215-540-4	H319 Eye Irritant Cat.2
Boric Acid	10.0 – 15.0	10043-35-3	233-139-2	Not Classified
Cellulose Fiber	Balance	9004-34-6	232-674-9	Not Classified
Balance of other ingredients is less than 1% in concentration (or 0.1% for carcinogens, reproductive toxins, or respiratory sensitizers).				

* NOTE: The actual concentration is being withheld

4. FIRST-AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES:

EYE CONTACT: If this product enters the eyes, open contaminated individual's eyes while under gently running water. Use sufficient force to open eyelids. Have contaminated individual "roll" eyes. Minimum flushing is for 15 minutes. Contaminated individual should seek medical if irritation occurs.

SKIN CONTACT: If this product contaminates the skin, wash with soap and water after use or before eating or smoking. Remove exposed or contaminated clothing, taking care not to contaminate eyes. The contaminated individual should seek medical attention if any adverse effect occurs.

INHALATION: If breathing becomes difficult remove contaminated individual to fresh air. Seek immediate medical attention if breathing difficulties continue.

INGESTION: Routine use of this product is not expected to cause any situation which could lead to ingestion. If this product is swallowed, CALL PHYSICIAN OR POISON CONTROL CENTER FOR MOST CURRENT INFORMATION.

If professional advice is not available, do not induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or unable to swallow.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Skin and respiratory disorders, as well as conditions involving the "Target Organs" (see Section 3, Hazard Identification) may be aggravated by prolonged overexposures to this product.

4.2 SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:

Exposure to this product may cause eye irritation.

4.3 RECOMMENDATIONS TO PHYSICIANS: Treat symptoms and eliminate overexposure.

5. FIRE-FIGHTING MEASURES

5.1 FIRE EXTINGUISHING MATERIALS:

Use fire extinguishing methods below:

Water Spray: Yes

Carbon Dioxide: Yes

Foam: Yes

Dry Chemical: Yes

Halon: Yes

Other: Any "C" Class



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5.2 UNUSUAL FIRE AND EXPLOSION HAZARDS:

This product has fire retardants in it to prevent or delay combustion.

Explosion Sensitivity to Mechanical Impact: Not Sensitive

Explosion Sensitivity to Static Discharge: Not Sensitive

5.3 SPECIAL FIRE-FIGHTING PROCEDURES:

Incipient fire responders should wear eye protection. Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.

6. ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

See section 8.2 for Exposure Controls.

6.2 ENVIRONMENTAL PRECAUTIONS:

None known

6.3 SPILL AND LEAK RESPONSE:

Proper protective equipment should be used. Personnel should be trained for spill response operations.

Small Spills: Wear rubber gloves, safety glasses, and appropriate body protection. Sweep up spilled material. Avoid generating airborne dusts.

Large Spills: Trained personnel following pre-planned procedures should handle non- incidental releases. Minimum Personal Protective Equipment should be gloves, boots, safety glasses, and Tyvek suit. Sweep up or vacuum spilled material. Avoid generating airborne dusts. Prevent material from entering sewer or confined spaces, waterways, soil or public waters. Monitor area and confirm levels are below exposure limits given in Section 8 (Exposure Controls-Personal Protection), if applicable, before non-response personnel are allowed into the spill area.

Place all spill residue in an appropriate container and seal. Decontaminate the area thoroughly. Do not mix with wastes from other materials. Dispose of in accordance with applicable Federal, State, and local procedures (see Section 13, Disposal Considerations). For spills on water, contain, minimize dispersion and collect. Dispose of recovered material and report spill per regulatory requirements.

7. HANDLING and STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING:

Read instructions before use.

7.2 STORAGE AND HANDLING PRACTICES:

All employees who handle this material should be trained to handle it safely. Store containers in a cool, dry location, away from direct sunlight, sources of intense heat, or where freezing is possible. Store containers away from incompatible chemicals (see Section 10, Stability and Reactivity). Do not incinerate empty or partially filled containers.

7.3 SPECIFIC USES:

Insulation.

8. EXPOSURE CONTROLS - PERSONAL PROTECTION

8.1 EXPOSURE PARAMETERS:

Chemical Name	CAS#	ACGIH TLV	OSHA TWA
Sodium Borate	1303-96-4	2 mg/m ³ as aerosol	Not applicable
Boric Acid	10043-35-3	2 mg/m ³ as aerosol	Not applicable
Cellulose Fiber	9004-34-6	10 mg/m ³	10 mg/m ³

8.2 EXPOSURE CONTROLS:

VENTILATION AND ENGINEERING CONTROLS: Use with adequate ventilation to ensure exposure levels are maintained below the limits provided below. Use local exhaust ventilation, and process enclosure if necessary, to control airborne dust. Ensure eyewash/safety shower stations are available near areas where this product is used.



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RESPIRATORY PROTECTION: Respiratory protection is generally not needed for normal conditions of use. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93, the European Standard EN149, or EU member states. Oxygen levels below 19.5% are considered IDLH by OSHA. In such atmospheres, use of a full-facepiece pressure/demand SCBA or a full facepiece, supplied air respirator with auxiliary self-contained air supply is required under U.S. Federal OSHA's Respiratory Protection Standard (1910.134-1998) or the regulations of various U.S. States, Canada, EU Member States, or those of Japan. Air-purifying respirators with dust/mist/fume filters are recommended if operations may produce mists or sprays from this product.

EYE PROTECTION: Not needed during normal use. If necessary, refer to U.S. OSHA 29 CFR 1910.133, Canadian Standards, and the European Standard EN166, Australian Standards, or relevant Japanese Standards.

HAND PROTECTION: Not needed during normal use. If necessary, refer to U.S. OSHA 29 CFR 1910.138, the European Standard DIN EN 374, the appropriate Standards of Canada, Australian Standards, or relevant Japanese Standards.

BODY PROTECTION: Not needed during normal use. If necessary, refer to appropriate Standards of Canada, or appropriate Standards of the EU, Australian Standards, or relevant Japanese Standards. If a hazard of injury to the feet exists due to falling objects, rolling objects, where objects may pierce the soles of the feet or where employee's feet may be exposed to electrical hazards, use foot protection, as described in U.S. OSHA 29 CFR 1910.136.

9. PHYSICAL and CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE (Physical State) and COLOR: These products are fibrous solids that come in a variety of colors.

ODOR: None

ODOR THRESHOLD: Not Applicable

pH: Not Applicable

MELTING/FREEZING POINT: Not Applicable

BOILING POINT: Not Applicable

FLASH POINT: Not Applicable

FLAMMABILITY (SOLID, GAS): Not Applicable

UPPER/LOWER FLAMMABILITY OR EXPLOSION LIMITS: Not Applicable

VAPOR PRESSURE (mm Hg @ 20°C (68°F): 0

VAPOR DENSITY: Not Applicable

RELATIVE DENSITY: Not Applicable

DENSITY: Not Applicable

SPECIFIC GRAVITY: 0.86 (water=1)

SOLUBILITY IN WATER: Slightly soluble

WEIGHT PER GALLON: Not Applicable

PARTITION COEFFICIENT (n-octanol/water): Not Applicable

AUTO-IGNITION TEMPERATURE: Not Applicable

DECOMPOSITION TEMPERATURE: Not Available

VISCOSITY: Not Applicable

VOC g/l / Lb/gal: Not Applicable

9.2.1 INFORMATION WITH REGARD TO PHYSICAL HAZARD CLASSES

EXPLOSIVES: Not Available

FLAMMABLE GASES: Not Available

AEROSOLS: Not Available

OXIDISING GASES: Not Available

GASES UNDER PRESSURE: Not Available

FLAMMABLE LIQUIDS: Not Available

FLAMMABLE SOLIDS: Not Available

SELF-REACTIVE SUBSTANCES AND MIXTURES: Not Available

PYROPHORIC LIQUIDS: Not Available

PYROPHORIC SOLIDS: Not Available

SELF-HEATING SUBSTANCES AND MIXTURES: Not Available

SUBSTANCES AND MIXTURES, WHICH EMIT FLAMMABLE GASES IN CONTACT WITH WATER: Not Available

OXIDISING LIQUID: Not Available

OXIDISING SOLID: Not Available



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ORGANIC PEROXIDES: Not Available

CORROSIVE TO METALS: Not Available

DESENSITISED EXPLOSIVES: Not Available

GASES UNDER PRESSURE: Not Available

9.2.2 OTHER SAFETY CHARACTERISTICS

MECHANICAL SENSITIVITY: Not Available

SELF-ACCELERATING POLYMERISATION TEMPERATURE: Not Available

FORMATION OF EXPLOSIVE DUST/AIR MIXTURES: Not Available

ACID/ALKALINE RESERVE: Not Available

EVAPORATION RATE: Not Available

MISCIBILITY: Not Available

CONDUCTIVITY: Not Available

CORROSIVENESS: Not Available

GAS GROUP: Not Available

REDOX POTENTIAL: Not Available

RADICAL FORMATION POTENTIAL: Not Available

PHOTOCATALYTIC PROPERTIES: Not Available

10. STABILITY and REACTIVITY

10.1 REACTIVITY:

This product is not reactive.

10.2 STABILITY:

Stable under conditions of normal storage and use.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS:

Will not occur

10.4 CONDITIONS TO AVOID:

Extreme temperatures, incompatible materials.

10.5 MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE:

This product is incompatible with Bromine pentafluoride, sodium nitrate, fluorine, strong oxidizers, alkali carbonates, alkali hydroxides, potassium and acetic anhydride.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS:

Combustion: This product has fire retardants in it to prevent or delay combustion.

11. TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS:

TOXICITY DATA: The specific toxicology data available for components greater than 1% in concentration are as follows.

SODIUM BORATE:

LD₅₀ (oral, infant) = 1 g/kg

LD₅₀ (oral, man) = 709 mg/kg; Behavioral: convulsions or effect on seizure threshold; Cardiac: change in rate; Gastrointestinal: nausea or vomiting

LD₅₀ (oral, rat) = 2660 mg/kg

LD₅₀ (oral, mouse) = 2 g/kg

BORIC ACID:

Skin Irritancy (human) = 15 mg/3 days/intermittent; Mild irritation effects

LD₅₀ (oral, man) = 429 mg/kg; Cardiovascular effects, Systemic effects

LD₅₀ (oral, woman) = 200 mg/kg

LD₅₀ (oral, infant) = 934 mg/kg

LD₅₀ (skin, infant) = 1200 mg/kg

MICROCRYSTALLINE CELULOSE:

LC₅₀ (Inhalation-Rat) > 5800 mg/m³/4 hours

LD₅₀ (Oral-Rat) > 5 g/kg

LD₅₀ (Skin-Rabbit) > 2 g/kg

LD₅₀ (Intraperitoneal-Rat) > 31,600 mg/kg

Acute toxicity	Based on available data, the classification criteria are not met
Skin corrosion / irritation	Based on available data, the classification criteria are not met
Serious eye damage / irritation	Eye Irritation Category 2a



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Respiratory or skin sensitization	Based on available data, the classification criteria are not met
Germ cell mutagenicity	Based on available data, the classification criteria are not met
Carcinogenicity	Based on available data, the classification criteria are not met
Reproductive toxicity	Reproductive Toxin Category 1B
STOT-single exposure	Based on available data, the classification criteria are not met
STOT-repeated exposure	Based on available data, the classification criteria are not met
Aspiration hazard	Based on available data, the classification criteria are not met

CARCINOGENIC CATEGORIES: Cellulose, boric acid, sodium borate, or mineral oil are not listed as a known or suspected carcinogen by OSHA, ACGIH, NTP, or IARC.

IRRITANCY OF PRODUCT: Airborne dusts of this product can irritate eyes.

SENSITIZATION TO THE PRODUCT: This product is not considered a sensitizer.

REPRODUCTIVE TOXICITY INFORMATION: Listed below is information concerning the effects of this product and its components on the human reproductive system.

Mutagenicity: The components of this product are not reported to produce mutagenic effects in humans.

Embryotoxicity: The components of this product are not reported to produce embryotoxic effects in humans.

Teratogenicity: The components of this product are not reported to cause teratogenic effects in humans.

Reproductive Toxicity: Borate-treated cellulose insulation consists of cellulose fiber treated with boric acid (H_3BO_3), sodium tetraborate pentahydrate ($Na_2B_4O_7 \cdot 5H_2O$), sodium tetraborate decahydrate ($Na_2B_4O_7 \cdot 10H_2O$), or a combination thereof.

Borate-treated cellulose insulation was tested for purposes of hazard classification under the Occupational Safety and Health Administration's 2012 Hazard Communication Standard. In a study conducted under OECD Guideline 414, there were no developmental effects in rats exposed to up to 270 mg/m³ (the highest exposure tested). In workers chronically exposed to high levels of borates for several years by way of inhalation, food, and drinking water, there was a clear absence of any reproductive effects.

For boric acid and substantially similar mixtures (specifically, sodium tetraborate pentahydrate and sodium tetraborate decahydrate), the reproductive toxicity is substantially equivalent; therefore, the same hazard category (i.e., no classification for reproductive toxicity) may be applied.

Classification: No classification.

SPECIFIC TARGET ORGAN TOXICITY – SINGLE EXPOSURE: None known

SPECIFIC TARGET ORGAN TOXICITY – REPEATED EXPOSURE: None known

ASPIRATION HAZARD: None

11.2 INFORMATION ON OTHER HAZARD CLASSES WHICH RELATES TO ENDOCRINE DISRUPTING PROPERTIES:

No specific data available for this product.

12. ECOLOGICAL INFORMATION

12.1 TOXICITY:

No toxicity data available.

12.2 PERSISTENCE AND DEGRADABILITY:

No specific data available on this product.

12.3 BIOACCUMULATIVE POTENTIAL:

No specific data available on this product.

12.4 MOBILITY IN SOIL:

These products have not been tested for mobility in soil. Additional data for components of these products are available as follows:

BORIC ACID:

Some boron (in boron compounds, such as Boric Acid) is adsorbed by iron and aluminum hydroxy compounds and clay minerals. Finer textured soils retain added boron longer than do coarse, sandy soils. Boron sorption by clay minerals and iron and aluminum oxides is pH dependent, with maximum sorption in the range 7-9. The amount of boron adsorbed depends on the surface area of the clay or oxide and this sorption is only partially reversible.

12.5 RESULTS OF PBT AND vPvB ASSESSMENT:

No specific data available on this product.



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12.6 ENDOCRINE DISRUPTING PROPERTIES:

No specific data available on this product.

12.7 OTHER ADVERSE EFFECTS:

No specific data available on this product.

ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.

12.8 WATER ENDANGERMENT CLASS:

Water endangering in accordance with EU Guideline 91/155-EWG. Not determined

13. DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS:

Waste disposal must be in accordance with appropriate U.S. Federal, State, and local regulations, those of Canada, Australia, EU Member States and Japan.

13.2 EU Waste Code:

Not determined

14. TRANSPORTATION INFORMATION

US DOT, IATA, IMO, ADR:

U.S. DEPARTMENT OF TRANSPORTATION (DOT) SHIPPING REGULATIONS: This product is classified (per 49 CFR 172.101) by the U.S. Department of Transportation, as follows.

14.1 PROPER SHIPPING NAME: Non-Regulated Material

14.2 HAZARD CLASS NUMBER and DESCRIPTION: None

14.3 UN IDENTIFICATION NUMBER: None

14.4 PACKING GROUP: None

14.5 DOT LABEL(S) REQUIRED: None

NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER: None

RQ QUANTITY: None

14.6 MARINE POLLUTANT: None of the components of this product are designated by the Department of Transportation to be Marine Pollutants (49 CFR 172.101, Appendix B).

14.7 SPECIAL PRECAUTIONS FOR USER:

None known

14.8 INTERNATIONAL TRANSPORTION:

INTERNATIONAL AIR TRANSPORT ASSOCIATION SHIPPING INFORMATION (IATA): This product is not considered as dangerous goods.

INTERNATIONAL MARITIME ORGANIZATION SHIPPING INFORMATION (IMO): This product is not considered as dangerous goods.

14.9 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND IBC CODE:

EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD (ADR): This product is not considered by the United Nations Economic Commission for Europe to be dangerous goods.

15. REGULATORY INFORMATION

15.1 UNITED STATES REGULATIONS:

U.S. SARA REPORTING REQUIREMENTS: The components of this article are not subject to the reporting requirements of Sections 302, 304, and 313 of Title III of the Superfund Amendments and Reauthorization Act.

U.S. SARA THRESHOLD PLANNING QUANTITY: There are no specific Threshold Planning Quantities for the components of this product. The default Federal MSDS submission and inventory requirement filing threshold of 10,000 lbs (4,540 kg) therefore applies, per 40 CFR 370.20.

U.S. CERCLA REPORTABLE QUANTITY (RQ): None

U.S. TSCA INVENTORY STATUS: The components of this product are listed on the TSCA Inventory or are exempted from listing.

OTHER U.S. FEDERAL REGULATIONS: None

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65): Ingredients within this article are not on the Proposition 65 Lists.



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15.2 CANADIAN REGULATIONS:

CANADIAN DSL/NDSL INVENTORY STATUS: The raw materials used in this article are on the DSL Inventory, or are exempted from listing.

OTHER CANADIAN REGULATIONS: Not applicable.

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all of the information required by those regulations.

CANADIAN WHMIS CLASSIFICATION and SYMBOLS: Complies with WHMIS 2015.

15.3 EUROPEAN ECONOMIC COMMUNITY INFORMATION:

This product does not meet the definition of a hazardous substance or preparation as defined by the European Union Council Directives 67/548/EEC, 1999/45/EC, 1272/2008/EC, 2015/830/EU and subsequent Directives.

See Section 2 for full Details.

15.4 AUSTRALIAN INFORMATION FOR PRODUCT:

The raw materials used in this article are listed on the International Chemical Inventory list.

15.5 JAPANESE INFORMATION FOR PRODUCT:

JAPANESE MINISTER OF INTERNATIONAL TRADE AND INDUSTRY (MITI) STATUS:

The components of this article are not listed as Class I Specified Chemical Substances, Class II Specified Chemical Substances, or Designated Chemical Substances by the Japanese MITI.

JAPANESE ENCS INVENTORY:

The raw materials used in this article are on the ENCS Inventory as indicated in the section on International Chemical Inventories, below.

POISONOUS AND DELETERIOUS SUBSTANCES CONTROL LAW:

No component of this article is a listed Specified Poisonous Substance under the Poisonous and Deleterious Substances Control Law.

15.6 INTERNATIONAL CHEMICAL INVENTORIES:

Listing of the raw materials used in producing this article on individual country Chemical Inventories is as follows:

Asia-Pac: Listed

Australian Inventory of Chemical Substances (AICS): Listed

Korean Existing Chemicals List (ECL): Listed

Japanese Existing National Inventory of Chemical Substances (ENCS): Listed

Philippines Inventory of Chemicals and Chemical Substances (PICCS): Listed

Swiss Giftliste List of Toxic Substances: Listed

U.S. TSCA: Listed

16. OTHER INFORMATION

HMIS Rating (Scale 0-4)	NFPA Rating (Scale 0-4)
Health hazard: 1	Health hazard: 1
Flammability: 0	Flammability: 0
Physical Hazard: 0	Physical Hazard: 0

Abbreviations and acronyms

ACGIH	<i>American Conference of Governmental Industrial Hygienists</i>
CFR	<i>Code of Federal Regulations</i>
DOT	<i>Federal Department of Transportation</i>
GHS	<i>The Globally Harmonized System of Classification and Labelling of Chemicals</i>
HMIS	<i>Hazardous Material Identification System</i>
HCS	<i>Hazard Communication Standard</i>
IARC	<i>International Agency for Research on Cancer</i>
IATA	<i>The International Air Transport Association</i>
ICAO	<i>The International Civil Aviation Organization</i>
IMDG	<i>International Maritime Dangerous Goods</i>
IMO	<i>International Maritime Organization</i>
LD50/LC50	<i>Lethal Concentration/Dose, 50 percent</i>
NFPA	<i>National Fire Protection Association</i>
NIOSH	<i>National Institute for Occupational Safety and Health</i>



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NTP

National Toxicology Program

OSHA

Occupational Safety and Health

PEL

Permissible Exposure Limit

SARA

Superfund Amendments and Reauthorization Act

TLV

ACGIH Threshold Limit Value

TWA

Time-Weighted Average

PREPARED BY: Chris Eigbrett – ([MSDS to GHS Compliance](#))

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REVISION LOG

December 8, 2015

- Document creation

September 19, 2018

- Updated with latest GHS information / template

December 10, 2019

- Formula Revision

September 3, 2023

- Updated to comply with 2020/878. Updates to Section 2, 9, 11, 12, 16.

END OF SDS SHEET