SAFETY DATA SHEET



This Safety Data Sheet (SDS) complies with the requirements of the U.S. Federal Occupational Safety and Health Administration Hazard Communication Standard (29 CFR 1910.1200, as updated in 2024) and equivalent state Standards. It has also been developed in accordance with the United Nations Globally Harmonized System of Classification of Chemicals (GHS) and the Canadian Workplace Hazardous Materials Information System (WHMIS). Refer to Section 16 of this document for the definition of terms and abbreviations.

SECTION 1: IDENTIFICATION

1.1 PRODUCT IDENTIFICATION

PRODUCT NAME: SILVER BLACKENER

1.2 PRODUCT USE AND RESTRICTIONS

- **IDENTIFIED USE:** Various metal-working and finishing applications.
- IDENTIFIED USERS: For sale to, use and storage by personnel trained in handling product safely.

1.3 MANUFACTURER INFORMATION

- MANUFACTURER/SUPPLIER: JAX CHEMICAL COMPANY
- ADDRESS: 640 South Fulton Avenue, Mount Vernon, NY 10550
- **BUSINESS PHONE:** 914-668-1818 (Monday Friday, 9:00 am 5:00 pm)
- EMERGENCY PHONE: 1-800-535-5053 (INFOTRAC; U.S. & Canada; 24 hours)
 - +1-352-323-3500 (INFOTRAC; International)

1.4 OTHER PRODUCT INFORMATION

• This product is sold and used in relatively small volumes. This SDS has been developed to address safety concerns affecting specific handling situations associated with product use and those involving warehouses and other workplaces where large numbers of product containers are stored or distributed.

SECTION 2: HAZARDS IDENTIFICATION

2.1 HAZARD CLASSIFICATION

• Skin corrosion (Category 1C)

2.2 LABEL ELEMENTS



Hazard Pictograms:

Signal Word: DANGER.

Hazard Statements: Causes severe skin burns and eye damage

Precautionary Statements

o **Prevention:** Keep out of reach of children. Read label before use. Do not breathe

mist/vapors/spray. Wash exposed skin thoroughly after handling. Wear protective

gloves/protective clothing/eye protection/face protection.

Response:
 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. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Immediately call a POISON

CENTER/doctor. Wash contaminated clothing before reuse.

Storage: Store locked up.

o Disposal: Dispose of contents/container in accordance with local, city, state, and national

regulations.

SECTION 2: HAZARDS IDENTIFICATION (Continued)

2.3 OTHER PERTINENT DATA ON HEALTH, PHYSICAL, AND ENVIRONMENTAL HAZARDS

• Product Aquatic Toxicity: Not applicable.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 INDENTIFICATION OF HAZARDOUS SUBSTANCES IN PRODUCT

NAME	CAS NUMBER	GHS HAZARD CLASSIFICATION FOR COMPONENT	% (w/w)
Hydrochloric Acid	7647-01-0	Skin Corrosion/Irritation (Category 1C) – Specific to this concentration.	< 10%
Tellurium Dioxide	7446-07-3	Not established.	0.5-1%
The remaining components are not classified as hazardous in their existing concentrations.			Balance

SECTION 4: FIRST AID MEASURES

4.1 <u>DESCRIPTION OF FIRST AID MEASURES</u>

BASIC FIRST AID BY EXPOSURE ROUTE:

AREA EXPOSED TREATMENT

Eye Contact: Flush with copious amounts of water for 15 minutes. "Roll" eyes during flush. Seek medical attention

mmediately.

Skin Contact: Flush area with warm, running water for several minutes. Seek medical attention if irritation persists or there

is skin tissue damage. Do not remove clothing if it sticks to the skin. Cover wounds with sterile bandage.

Seek medical attention if irritation persists or there is skin tissue damage.

Inhalation: Obtain fresh air. Seek medical attention if irritation persists or symptoms continue after exposure ends.

Ingestion: If conscious only: Rinse mouth with water. Drink several cups of water. Do not induce vomiting. Contact a

Poison Control Center or physician for instructions.

Additional Steps: Wash clothing after reuse.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

• ACUTE HEALTH EFFECTS:

AREA EXPOSED EFFECTS

Eye Contact: Corrosive to eye tissue; contact will cause pain, redness, and tissue damage. Chemical burns and blindness

may occur.

Skin Contact: Corrosive to skin tissue; contact will cause pain, redness, and tissue damage. Chemical burns may occur. **Inhalation:** Very irritating to the respiratory system; inhalation of sprays, mists, and vapors can cause coughing, nasal

Very irritating to the respiratory system; inhalation of sprays, mists, and vapors can cause coughing, nasa congestion, and sore throat.

Corrosive and may cause severe and permanent damage to mouth, throat, and stomach. May be fatal if

swallowed.

CHRONIC HEALTH EFFECTS: Prolonged or repeated contact may cause dermatitis.

• TARGET ORGANS: Skin, eyes.

Ingestion:

4.3 INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

- **GENERAL INFORMATION:** For all exposures: In case of accident, or if you feel unwell, seek medical advice immediately. Take this document and a copy of the label to the healthcare professional.
- RECOMMENDATIONS TO PHYSICIANS: Treat symptomatically.
- MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE: Medical conditions impacting the target organs can be aggravated upon overexposure.

SECTION 5: FIREFIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

- **RECOMMENDED FIRE EXTINGUISHING MEDIA:** Water Spray, Water Jet, Dry Powder, Foam, Carbon Dioxide, Halon, or any other.
- UNSUITABLE FIRE EXTINGUISHING MEDIA: None known.

5.2 <u>SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE</u>

• NFPA FLAMMABILITY CLASSIFICATION:

NFPA Rating:



NFPA Hazard Classification: Not flammable. Corrosive.

UNUSUAL HAZARDS IN FIRE SITUATIONS:

POTENTIAL HAZARD DESCRIPTION FOR PRODUCT

Decomposition: Generates extremely irritating vapors, hydrogen chloride gas and tellurium oxides.

Incompatibilities: See Section 10 (Reactivity and Stability).

Explosion Sensitivity to Mechanical Impact: Not applicable. Explosion Sensitivity to Static Discharge: Not applicable.

5.3 <u>ADVICE FOR FIREFIGHTERS</u>

Self-Contained Breathing Apparatus and full protective equipment for fire response should be worn in any situation.
 Move containers from fire area if it can be done without risk to personnel. Otherwise, use water spray to keep fire-exposed containers cool.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES

- **RESPONSE TO INCIDENTAL RELEASES:** Personnel who have received basic chemical safety training can generally handle small-scale releases. Gloves and safety glasses must be worn when cleaning-up spills. Use caution during clean-up; contaminated floors and items may be slippery.
- RESPONSE TO NON-INCIDENTAL RELEASES: Generally, releases of this product will be no larger than the loss of
 one shipment of material. Subsequently, personnel can follow the instructions for incidental releases.

As needed, respond to non-incidental chemical releases of this product (such as the simultaneous destruction of several pallets of this product) by clearing the impacted area and contacting appropriate emergency personnel.

In the unlikely event of a multi-container release of the product, and there is no other hazardous condition in the area, the use of an air-purifying respirator with acid gas cartridge, face-shield, safety glasses, and double gloves (e.g. nitrile over latex gloves), and body protection is recommended if splashes/sprays/mists can be generated during clean-up or the concentration of vapors is high. Use Self-Contained Breathing Apparatus if concentration of oxygen is less than 19.5% or is unknown.

• **RESPONSE PROCEDURES FOR ANY RELEASE:** Absorb spilled liquid with polypads or other suitable absorbent materials. If appropriate, neutralize contaminated area and equipment with acid neutralizing agent (e.g., sodium bicarbonate). Rinse contaminated items and area thoroughly. Confirm that neutralization is complete with pH paper.

6.2 ENVIRONMENTAL PRECAUTIONS

• IN CASE OF SPILL: Collect spillage promptly. Avoid response actions that can cause a release of a significant amount of the substance into the environment. Avoid accidental dispersal of spilled material into soil, waterways, and sewers.

6.3 <u>METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN-UP</u>

• **SPILL RESPONSE EQUIPMENT:** Polypad or other absorbent material; acid neutralizing agent (e.g., sodium bicarbonate); pH paper.

6.4 REFERENCE TO OTHER SECTIONS

- See Section 8 (Exposure Controls/Personal Protection) for personal protective equipment recommendations.
- See Section 13 (Disposal Recommendations) for information on waste disposal.

SECTION 7: HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

- HYGIENE PRACTICES: Follow good chemical hygiene practices. Do not smoke, drink, eat, or apply cosmetics in the chemical use area. Avoid inhalation of vapors, mists, and sprays. Use in well-ventilated area. Avoid contact with skin or eyes. Remove contaminated clothing promptly. Clean up spilled product immediately.
- HANDLING PRACTICES: Employees must be appropriately trained to use this product safely as needed. Keep
 containers closed when not in use.

7.2 CONDITIONS FOR SAFE STORAGE

- STORAGE PRACTICES: Store locked up. Keep container dry. Use non-metal containers or metal containers with corrosion-resistant lining. Ensure all containers are correctly labeled. Store containers away from direct sunlight, sources of intense heat, or where freezing is possible. Store this product away from incompatible chemicals. Inspect all incoming containers before storage, to ensure containers are properly labeled and not damaged. Empty containers may contain residual liquid; therefore, empty containers should be handled with care.
- INCOMPATIBILITIES: See Section 10 (Stability and Reactivity).

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

• AIRBORNE EXPOSURE LIMITS:

COMPONENT	ACGIH TLV	OSHA PEL	NIOSH REL	OTHER
Hydrochloric Acid	C = 2ppm	C = 5 ppm	C = 5 ppm	NE
Tellurium Dioxide (for Tellurium and Compounds, as TE)	TWA = 0.1 mg/m ³	TWA= 0.1 mg/m ³	TWA = 0.1 mg/m ³	NE

BIOLOGICAL OCCUPATIONAL EXPOSURE LIMITS: Not established.

8.2 EXPOSURE CONTROLS

- ENGINEERING CONTROLS: Ensure area has adequate ventilation.
- RESPIRATORY PROTECTION: None normally required during use with this product.
- HAND PROTECTION: Neoprene or nitrile gloves are recommended. Ensure gloves are intact prior to use.
- **EYE PROTECTION:** A face shield with safety glasses is recommended if splashes or sprays can be generated. Otherwise, wear safety glasses with side-shields or safety goggles.
- BODY PROTECTION: Use body protection appropriate to task (rubber apron, lab coat).

8.3 PERSONAL PROTECTIVE EQUIPMENT SYMBOLS

Hand Protection



Eye/Face Protection



Body Protection.



SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 <u>INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES</u>

APPEARANCE AND DISTINGUISHING CHARACTERISTICS:

PROPERTYDATAState:Liquid.Color:Light amber.Odor:Sharp, acrid.

Odor Threshold: Hydrochloric Acid = 0.255 to 10.06 ppm

pH: 0.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL DATA:

PROPERTY DAT

Melting Point/Freezing Point: Approximately 0°C (32 °F).

Initial Boiling Point/Boiling Range: Approximately 100°C (212 °F).

Flash Point: Not applicable. Evaporation Rate (Water = 1): Approximately 1.0. Flammability: Not applicable. **Upper/Lower Explosive Limits** Not applicable. Vapor Pressure: Not determined. **Vapor Density** Not determined. Relative Density (Density): Approximately 1.02 Solubility: Soluble in water. Partition Coefficient/n-octanol/water: Not determined.

Autoignition Temperature:

Decomposition Temperature:

Not applicable.

Not determined.

Not determined.

Not determined.

Not determined.

Not determined.

Not determined.

Not applicable.

9.2 OTHER USEFUL INFORMATION ON PROPERTIES

• VOC (less water & exempt): 0.0 g/L VOC % By WEIGHT: 0.0%.

SECTION 10: STABILITY AND REACTIVITY

10.1 REACTIVITY AND CHEMICAL STABILITY

- The product is not reactive under typical conditions of use or handling.
- Normally stable under standard temperatures and pressures.

10.2 <u>POSSIBILITY OF HAZARDOUS REACTIONS (INCLUDING THOSE ASSOCIATED WITH FORSEEABLE EMERGENCY)</u>

Product is not self-reactive, water-reactive, or air-reactive; it will not undergo hazardous polymerization.

10.3 CONDITIONS TO AVOID

• Avoid contact with incompatible chemicals.

10.4 INCOMPATIVLE MATERIALS

• Strong bases. Cyanides. Powdered metals. Oxidizing agents.

10.5 HAZARDOUS DECOMPOSITION PRODUCTS

Thermal decomposition of this product generates hydrogen chloride gas, tellurium compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON ACUTE TOXICITY

- PRODUCT TOXICOLOGY DATA: The following are calculated estimates for the product:
 - Acute Toxicity Estimate (Oral) > 300 mg/kg
 - Acute Toxicity Estimate (Dermal) > 2000 mg/kg
 - Acute Toxicity Estimate (Inhalation) > 10 mg/L
- SUBSTANCE TOXICOLOGY DATA: The following data are available for the hazardous components in this product listed in Section 3 (Composition/Information on Ingredients).

HYDROCHLORIC ACID

TELLURIUM DIOXIDE LD50 (Oral-Rat) > 5000 mg/kg

LC50 (Inhalation, Rat) = 3124 ppm/1 hour LCLo (Inhalation, Human) = 1300 ppm/30 minutes

LCLo (Inhalation, Human) = 3000 ppm/5 minutes

LDLo (Oral-Man): 2857 µg/kg

LD50 (Oral-Rabbit) = 900 mg/kg

LDLo (Oral-Woman) = 420 µL/kg: Behavioral: excitement;

Cardiac: pulse rate; Kidney, Ureter, Bladder: hematuria

LDLo (Unreported-Man) 81 mg/kg

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SECTION 11: TOXICOLOGICAL INFORMATION (Continued)

 DEGREE OF IRRITATION: The product causes severe skin burns and eye damage. The following information is for the components of this product.

HYDROCHLORIC ACID: Skin corrosion/irritation: Skin - rabbit; causes burns.

Serious eye damage/eye irritation: Eyes – rabbit: Corrosive to eyes

- SENSITIZATION: No component is reported to be a skin or respiratory sensitizer.
- REVIEW OF ACUTE SYMPTOMS AND EFFECTS BY ROUTE OF EXPOSURE: See Section 2 (Hazards Information) and Section 4 (First-Aid Measures) for additional details.

Eyes: Corrosive to eyes.Skin: Corrosive to skin.

o Inhalation: Respiratory irritant; corrosive to mucous membranes and respiratory system tissue.

o **Ingestion:** Corrosive to digestive system tissue; harmful or fata if swallowed.

11.2 <u>INFORMATION ON CHRONIC TOXICITY</u>

• **CARCINOGENICITY STATUS:** This table summarizes the carcinogenicity listing for the components of this product. "NO" indicates that the substance is not considered to be, or suspected to be, a carcinogen by the listed agency.

CHEMICAL	IARC	NTP	NIOSH	OSHA	OTHER
Hydrochloric Acid	IARC-3: Unclassifiable as to Carcinogenicity in Humans	NO	NO	NO	TLV-4: Not Classifiable as a human carcinogen.
Tellurium Oxide	NO	NO	NO	NO	NO

- **REPRODUCTIVE TOXICITY INFORMATION:** This product is not reported to cause adverse reproductive effects upon normal circumstances of use and handling. The following information is available for components of this product:
 - HYDROCHLORIC ACID: LCLo (Inhalation-Rat) 450 mg/m3/1 hour: female 1-day(s) pre-mating: Reproductive: Effects on Embryo
 or Fetus: fetotoxicity (except death, e.g., stunted fetus); Specific Developmental Abnormalities: homeostasis.
- **MUTAGENIC EFFECTS:** This product is not reported to cause adverse mutagenic effects upon normal circumstances of use and handling. The following information is available for components of this product:
 - O HYDROCHLORIC ACID: DNA Repair (Bacteria-Escherichia coli) 25 □g/well81; Sex Chromosome Loss and Nondisjunction, (Inhalation-Drosophila melanogaster) 100 ppm/24 hours; Sex Chromosome Loss and Nondisjunction, (Oral-Drosophila melanogaster) 100 ppm; Cytogenetic Analysis (Parenteral-grasshopper) 20 mg; Cytogenetic Analysis (Hamster-Lung) 30 mmol/L; Cytogenetic Analysis (Hamster-Ovary) 8 mmol/L
- SPECIFIC TARGET ORGAN TOXICITY SINGLE EXPOSURE: Not applicable.
- SPECIFIC TARGET ORGAN TOXICITY REPEATED EXPOSURE: Not applicable.
- ASPIRATION HAZARD: Not applicable.

11.3 OTHER USEFUL TOXICOLOGY INFORMATION

- TOXICOLOGICALLY SYNERGISTIC PRODUCTS: None known.
- ADDITIONAL TOXICOLOGY: Not applicable.

SECTION 12: ECOLOGICAL INFORMATION

12.1 ENVIRONMENTAL TOXICITY

- Based on available data, this product is anticipated to be harmful or fatal to contaminated terrestrial plants or animals.
- Based on available data, this product is anticipated to be harmful or fatal to contaminated aquatic plants or animals.
- Based on the concentration of components, the product is classified as Acute aquatic toxicity (Category 2); Acute
 aquatic toxicity (Category 2).
- The following aguatic toxicity data are available for components of this product:

HYDROCHLORIC ACID

TLm (sunfish) = 96 hours/ pH 3.6/ 20°C

TLm (goldfish) = 96 hours/ pH 4/ 20°C

TLm (Gambusia affinis, mosquito fish) 96 hours = 282 ppm (fresh water)

TLm (stickleback) = 96 hours/ pH 4.6/ 20°C

LC (Lepomis macrochirus, bluegill sunfish) 48 hours = 3.6 mg/L

HYDROCHLORIC ACID (Continued)

LC50 (shrimp) 48 hours = 100-330 ppm (salt water)

LC50 (starfish) 48 hours = 100-300 mg/L/ 48 hours

LC50 (cockle) = 330-1000 mg/L

LC50 (Carassium auratus, goldfish) = 178 mg/L (1-2-hour survival

time)

LC50 (shore crab) 48 hours = 240 mg/L

LC50 (Lepomis macrochirus/bluegill sunfish) 96 hours = pH 3.0-3.5

TELLIURIUM DIOXIDE

LC50 (Fundulus heteroclitus)-> 1,000 mg/L. 96 hours

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SECTION 12: ECOLOGICAL INFORMATION (Continued)

12.2 PERSISTENCE AND DEGRADABILITY

- When released into the soil, the components of this product are expected to biodegrade, dissipate in soils via oxidation, or otherwise chemically degrade or photo-decompose via solar radiation. Specific environmental fate data for components of this product are as follows:
 - HYDROCHLORIC ACID: Water solubility: 56.5 g/ 100 cc (60°C); 82.3 g/ 100 cc (0°C); Environmental Fate: If spilled onto the soil, Hydrochloric Acid will infiltrate the soil. The presence of water will increase the movement through soil. During transport, the acid will dissolve carbonate-based material and will be somewhat neutralized by these materials; however, a significant amount of the acid will remain. Overtime the pH will be neutralized by natural alkalinity and carbon dioxide. If released to an aquatic environment, Hydrochloric Acid will almost completely dissociate.

12.3 BIOACCUMULATIVE POTENTIAL

• This product is not anticipated to bioaccumulate significantly.

12.4 MOBILITY IN SOIL

• It is to be expected this product will have small mobility in soil. Some of the components may get into the soil and, ultimately, the ground water. Product spreads on the water surface.

12.5 OTHER ADVESE ENVIRONMENTAL EFFECTS

· None reported.

SECTION 13: DISPOSAL CONSIDERATION

13.1 WASTE TREAMENT METHODS

- Dispose of product waste in accordance with local, state and national regulations.
- Do not mix wastes of this product with other waste streams.

13.2 DISPOSAL CONSIDERATIONS

EPA RCRA WASTE CODE: D002; applicable to wastes consisting only of this product.

13.3 DISPOSITION OF EMPTY CONTAINERS

- Empty containers may contain residual liquid; therefore, empty containers should be handled with care.
- Empty containers should be discarded properly.

SECTION 14: TRANSPORT INFORMATION

14.1 HAZARDOUS MATERIALS TRANSPORATION REGULATIONS

DEPARTMENT OF TRANSPORTATION HAZARDOUS MATERIALS SHIPPING REGULATIONS:

UN/NA Number		Packing Group	Hazard Class	Label	North American Emergency Response Guide #	Marine Pollutant Status
UN3264	Corrosive liquids, acidic, inorganic, n.o.s. (hydrochloric acid)	III	8	CONTRIBUTE SECTION SEC	154	Not applicable.

- LIMITED QUANTITY EXCEPTIONS [49 CFR 173.154(b)]: Limited quantities for Class 8, Packing Group III materials have inner packagings not over 5.0 L [1.3 gal] (liquids) net capacity each, packed in strong outer packaging.
- CANADIAN TRANSPORTATION INFORMATION: This product is regulated by Transport Canada as dangerous goods under Canadian transportation standards. Refer to above information.

SECTION 14: TRANSPORT INFORMATION

• IATA DESIGNATION: This product is regulated as dangerous goods by the International Air Transport Association.

Basic Description	F	Passenger and Cargo Aircraft				Cargo Aircraft Only	
	Limited (Quantity	Packing	Max. Qty per PKG	Packing Instruction	Max. Qty per PKG	
	Packing Instruction	Max. Qty per PKG	Instruction				
UN3264, Corrosive liquid, acidic, inorganic, n.o.s. (hydrochloric acid), 8, PGIII	Y841	1L	852	5L	856	60L	

IMO DESIGNATION: This product is regulated as dangerous goods by the International Maritime Organization.

Basic Description		cepted Quantity isions	Pa	acking	EmS
	Limited Quantities	Excepted Quantities	Instructions	Provisions	
UN3264, Corrosive liquid, acidic, inorganic, n.o.s. (hydrochloric acid), 8, PGIII	5L	E1	P001, LP01		FA-SB

14.2 ENVIRONMENTAL HAZARDS

Not applicable.

14.3 SPECIAL PRECAUTIONS FOR TRANSPORTERS

Avoid release into the environment and collect spillage if it occurs.

14.4 TRANSPORT IN BULK

Not applicable.

SECTION 15: REGULATORY INFORMATION

15.1 OTHER IMPORTANT U.S. SAFETY, HEALTH, AND ENVIRONMENTAL REGULATIONS

- U.S. SARA THRESHOLD PLANNING QUANTITY: Not applicable to Hydrochloric Acid in this concentration.
- U.S. SARA HAZARD CATEGORIES (SECTION 311/312, 40 CFR 370-21): ACUTE: Skin Corrosion/Irritation; Eye Damage/Irritation.
- U.S. CERCLA REPORTABLE QUANTITY (RQ): Hydrochloric Acid Solution = 5000 lb. (2270 kg)
- U.S. SARA 313: No component is subject to the reporting requirements of SARA Title III Section 313.
- U.S. TSCA INVENTORY STATUS: All components of this product are listed on the TSCA Inventory.

15.2 OTHER IMPORTANT U.S. STATE REGULATIONS FOR COMPONENTS

- CALIFORNIA SAFE DRINKING WATER ACT (PROPOSITION 65) STATUS: Not applicable.
- STATE HAZARDOUS SUBSTANCES LIST:

COMPONENT	NJ Right to Know	PA Right to Know	MA Right to Know	OTHER
Hydrochloric Acid	LISTED	LISTED	NOT LISTED	ND
Tellurium Oxide	LISTED	LISTED	LISTED	ND

15.3 OTHER IMPORTANT CANADIAN SAFETY, HEALTH, AND ENVIRONMENTAL REGULATIONS

- ADDITIONAL WHMIS INFORMATION: The following information pertinent to this product.
 - o WHIMS 2015: See Section 2.
 - This SDS contains all the information required by the HPR.
- CANADIAN DSL/NDSL INVENTORY STATUS: Listed components of this product are on the DSL/NDSL Inventory.
- CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS: The components
 of this product are not on the CEPA Priority Substances Lists.

SECTION 16: OTHER INFORMATION

16.1 INDICATION OF CHANGE

- DATE OF REVISION: September 16, 2024
- SUPERCEDES: March 29, 2019
- CHANGE INDICATED: Update of document for compliance with 2024 US OSHA Hazard Communication standard. Review and update of data, based on currently available information.

16.2 HAZARDOUS MATERIALS SYSTEM RATING

Health	3	
Flammability	0	
Physical Hazard	0	(Personal Protective Equipment Rating: Occupational Use situations: C: Body protection'gloves/safety goggles-safety glasses with side shields; D: Add face-shield if splashes or sprays are anticipated.
Protective Equipment	C/D	Selection based on use. See section 8 for details.)

16.3 <u>DEFINITIONS</u>

SECTION EXPLANATION OF TEMS/ABBREVIATIONS

ALL	OSHA: U.S. Federal Occupational Safety and Health Administration. WHMIS: Canadian Workplace Hazardous Materials
	Standard. GHS: Globally Harmonized System of Classification of Chemical Substances. HCS: Hazard Communication
	Standard (U.S.). <u>HPR</u> : Hazardous Products Regulations (Canada).

- CAS Number: Chemical Abstract Service Number, used by the American Chemical Society to uniquely identify a chemical.
 NEFPA: National Fire Protection Association. NFPA FLAMMABILITY CLASSIFICATION: The NFPA uses the flash point (FI.P.) and boiling point (BP) to classify flammable or combustible liquids. Class IA: FI.P. below 73°F and BP below 100°F. Class IB: FI.P. below 73°F and BP at or above 100°F. Class IC: FI.P. at or above 73°F and BP at or above 100°F. Class III.FI.P. at or above 140°F and below 200°F. Class IIIB: FI.P. at or above 200°F. NFPA HAZARDOUS MATERIALS RATING: This is a rating system used to summarize physical and health hazards to firefighters Blue = Health hazard; Red = Fire Hazard; Yellow = Reactivity Hazard. 0 = No Significant Hazard. 1 = Slight Hazard. 2 = Moderate Hazard. 3 = Severe Hazard. 4 = Extreme Hazard.
- NE: Not established. ACGIH: American Conference of Government Industrial Hygienists; TWA: Time-Weighted Average (over an 8-hour work day); STEL: Short-Term Exposure Limit (15-minute average, no more than 4-times daily and each exposure separated by one-hour minimally); C: Ceiling Limit (concentration not to be exceeded in a work environment).

 PEL: Permissible Exposure Limit. NIOSH: National Institute of Occupational Safety and Health; REL: Recommended Exposure Limit. ppm: Parts per Million. mg/m³: Milligrams per cubic meter. mppcf: Millions of Particles per Cubic Foot.

 BEI: Biological Exposure Limit.
- pH: Scale (0 to 14) used to rate the acidity or alkalinity of aqueous solutions. For example, a pH value of 0 indicates a strongly acidic solution, pH of 7 indicates a neutral solution, and a pH value of 14 indicates an extremely basic solution. FLASH POINT: Temperature at which a liquid generates enough flammable vapors so that ignition may occur. AUTOIGNITION TEMPERATURE: Temperature at which spontaneous ignition occurs. LOWER EXPLOSIVE LIMIT (LEL): The minimal concentration of flammable vapors in air which will sustain ignition. □ PPER EXPLOSIVE LIMIT (UEL): The maximum concentration of flammable vapors in air which will sustain ignition. □ Approximately symbol. □ VOC: Volatile Organic Compound.
- CARCINOGENICITY STATUS: NTP: National Toxicology Program. IARC: International Agency for Research on Cancer. REPRODUCTIVE TOXICITY INFORMATION: Germ Cell Mutagenicity: Substance capable of causing chromosomal damage to cells. Embryotoxicity: Substance capable of damaging the developing embryo in an overexposed female. Teratogen: Substance capable of damaging the developing fetus in an overexposed female. Reproductive toxin: Substance capable of adversely affecting male or female reproductive organs or functions. TOXICOLOGY DATA: LD xx or LCxx: The Lethal Dose or Lethal Concentration of a substance which will be fatal to a given percentage (xx) of exposed test animals by the designate route of administration. This value is used to access the toxicity of chemical substances to humans. TDxx or TCxx: The Toxic Dose or Toxic Concentration of a substance which will cause an adverse effect to a given percentage (xx) of exposed test animals by the designate route of administration.
- 12 <u>EC50</u>: Effect Concentration (on 50% of study group); <u>BOD</u>: Biological Oxygen Demand. <u>TLM</u>: Threshold Limit, Median.
- 13 <u>RCRA</u>: Resource Conservation and Recovery Act. The regulations promulgated under this act under Act are found in 40 CFR, Sections 260 ff, and define the requirements of hazardous waste generation, transport, treatment, storage, and disposal. EPA RCRA Waste Codes: Defined in 40 CFR Section 261.
- 15 New Jersey. PA: Pennsylvania. MA: Massachusetts. ND: Not determined. CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act. SARA: Superfund Amendments and Reauthorization Act.
- HAZARDOUS MATERIALS IDENTIFICATION SYSTEM RATING: This is a rating system used by industry to summarize physical and health hazards to chemical users and was originally developed by the National Paint and Coating Association. 0 = No Significant Hazard. 1 = Slight Hazard. 2 = Moderate Hazard. 3 = Severe Hazard. 4 = Extreme Hazard.

16.4 DISCLAIMER



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