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BULK

Corrosion X[®] XD Safety Data Sheet

1. IDENTIFICATION

Product Name: CorrosionX[®] XD
Product Numbers: 97000, 97103, 97004, 97005, 97002, 97001
Product Type and Use: Corrosion Inhibitor / Moisture Displacer / Lubricant
Manufacturer: U.S. Corrosion Technologies, LLC
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Poisons Information Centre: Australia: 13 11 26
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2. HAZARDS IDENTIFICATION

Hazard Classification

Health Hazard(s)

Eye Irritation Category 2B
STOT-SE Category 3
Carcinogenicity Category 1A

Physical Hazard(s)

None

Hazard(s) not otherwise classified

None

Labeling

Signal Word: DANGER
Pictograms: Exclamation Mark, Health Hazard

Statements of Hazard

Hazard Statements

May cause cancer by inhalation
Causes eye irritation
May cause dizziness or drowsiness

Precautionary Statements

Wash hands thoroughly after handling. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. If exposed or concerned; get medical advice. Use only outdoors or in a well-ventilated area. Avoid breathing mist and vapors. Dispose of contents and container in accordance with applicable regulations.
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.
If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a doctor if you feel unwell.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Percent by Wt.
Mineral Spirits	8052-41-3	1-5*
Crystalline Silica (Quartz)	14808-60-7	0.1-1.0*
Mineral oil	8042-47-5	5-10*
Hydrotreated neutral base oil	72623-85-9	30-35*

* Exact percentage of composition has been withheld as a trade secret

4. FIRST AID MEASURES

General Advice: Causes eye irritation. Avoid eye contact. Use with adequate ventilation. Avoid breathing vapor or mist. Prolonged or repeated inhalation may cause dizziness and drowsiness. Keep container tightly closed.

Inhalation: Remove from exposure area to fresh air. Give artificial respiration if not breathing. Get medical attention.

Skin Contact: Wipe excess from skin; remove contaminated clothing. Wash with soap and water. If persistent irritation occurs, obtain medical attention. If product is injected into or under the skin due to any reason, the person, regardless of size or appearance of wound, person should be brought immediately to medical attention for emergency surgical needs. Though the initial symptoms due to high pressure injection may be minimal / absent, early surgical treatment may significantly reduce the extent of injury.

Eye Contact: Flush eyes with plenty of water for 15 minutes while holding eyelids open. Seek medical attention if irritation persists.

Ingestion: Give water, DO NOT induce vomiting. No treatment necessary unless large quantities are ingested, then seek medical advice.

5. FIRE FIGHTING MEASURES

Extinguishing Media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Suitable: Carbon Dioxide, Dry Chemical, and Foam

Unsuitable: Alcohol, Alcohol based solutions, any other media not listed above.

Fire Fighting Procedures: As in any fire, wear self-contained breathing apparatus, pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Unusual Fire and Explosion Hazards: Solvent vapors are heavier than air and may travel to distant, low lying sources of ignition and may ignite and explode.

Hazardous Combustion/ Decomposition Products: Oxides of carbon, sulfur, calcium, magnesium and phosphorous.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions / Protective Equipment / Emergency Procedures: Use caution as spills may be slippery. Ensure adequate ventilation. Use personal protective equipment. Remove all sources of ignition and take precautionary measures against static discharges.

Methods and materials for containment and cleaning up: Do not flush into surface water or sanitary sewer system. Dike and contain spillage. Soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite). Use clean non-sparking tools to collect absorbed material and transfer to a properly labeled container for disposal according to applicable regulations.

7. HANDLING AND STORAGE

HANDLING

Precautions for Safe Handling: Avoid eye contact. Use with adequate ventilation. Avoid breathing vapor or mist. Follow all SDS/label precautions even after container is empty due to residue.

STORAGE

Conditions to avoid: Store in a cool, dry, well-ventilated place in the original container. Keep container tightly closed when not in use. Avoid excess heating, high temperatures, sparks, hot surfaces, open flames and all other sources of ignition.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

Component	ACGIH		OSHA		STEL ppm	IDLH mg/m3
	TLV ppm	TLV mg/m3	PEL ppm	PEL mg/m3		
Mineral Spirits	100	Not Est.	Not Est.	Not Est.	500	Not Est.
Crystalline Silica (Quartz)	Not Est.	0.025	Not Est.	0.1 (resp)	Not Est.	50 (resp)
Mineral Oil	Not Est.	5	10	5	2500	Not Est.
Hydrotreated neutral base oil	Not Est.	5	10	5	2500	Not Est.

Engineering Controls: Use with local exhaust ventilation. Ensure adequate ventilation, especially in confined areas.

Personal Protection

Respiratory Protection: None required under normal use conditions. In case of insufficient ventilation and for exposures above occupational exposure limits wear a NIOSH approved air purifying respirator with organic vapor cartridge.

Hand / Skin Protection: None typically required. For sensitive skin; wear impermeable gloves such as neoprene or nitrile rubber gloves. Gauntlets and apron may be worn depending on the extent and duration of exposure.

Eye / Face Protection: Safety glasses with side-shields. An eyewash station should be available to the area of use.

General Hygiene Measures: Avoid eye contact. Always wash hands and face before eating, drinking or smoking.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Opaque	Autoignition Temperature:	Not established
Physical State:	Semi-viscous liquid	Volatile by volume (%):	2
Odor:	Petroleum	Vapor Density (Air=1) :	>1
Color:	Light brown	Evaporation Rate (BuAc=1) :	<0.01
Viscosity, cPs	Not est.	Vapor Pressure, mmHg @23°C:	>1 mmHg
pH:	Not applicable	Solubility in water:	Negligible
Boiling Point/ Range:	>425°F / 218°C	Octanol/Water Partition:	Not established
Melting Point:	Not established	VOC Content g/l (%):	20 (2)
Flash Point:	132°C / 270°F	Specific Gravity @15.6°C:	0.885
Method:	Cleveland Open Cup	Pour Point:	-22°F / -30°C
Lower Explosive Limit, vol %:	4.8	Non-volatile by volume (%):	98
Upper Explosive Limit, vol %:	7		

10. STABILITY AND REACTIVITY

Stability: Stable at ambient temperatures.

Conditions to Avoid: Avoid high temperatures, sparks, open flame and all other sources of ignition

Hazardous Polymerization: Will not occur.

Materials to Avoid: Bases, acids, amines and oxidizing materials.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information: Not established

Ingredient Information

Mineral Spirits: Orl-rat LD50 - >6500 mg/kg, Skn-rbt LD50 - >3000 mg/kg, Ihl-rat LC50 - >14 mg/l 4 hr

Crystalline Silica (Quartz): /Oral/Rat LD50: > 8000 mg/kg

Mineral oil: Orl-rat LD50 >5000 mg/kg, Skn-Rbt LD50 - 20,000 mg/kg

Hydrotreated neutral base oil: Orl-rat LD50 >5000 mg/kg, Skn-Rbt LD50 - 20,000 mg/kg

Acute Effects

Signs and Symptoms of Overexposure: Eye Irritation, Coughing, Sneezing, Dizziness, Drowsiness

Inhalation: May cause coughing and sneezing. Prolonged and repeated inhalation of vapors may cause nausea, dizziness and drowsiness.

Skin Contact: Prolonged or repeated contact may cause irritation in sensitive individuals. Prolonged and/or repeated contact with skin without adequate cleaning may clog the pores of the skin, may result disorder such as oil acne/folliculitis.

Eye Contact: May cause stinging, tearing and redness.

Ingestion: May cause nausea, vomiting and diarrhea.

Primary Route(s) of Exposure: Skin, Eyes, Inhalation

Primary Route(s) of Entry: Inhalation, Ingestion

Target Organs: Skin, Eyes, Central Nervous System, Lungs

Chronic Effects: May cause cancer by inhalation

Carcinogenicity: Contains highly refined base oil blend (< 3 % DMSO extractable) ACGIH group A4; not classified as human carcinogen. Crystalline silica (quartz) is classified by ACGIH A2 Suspected Human Carcinogen, IARC Group 1- Carcinogenic to Humans, NTP Group A - Known to be human carcinogens and is present on the OSHA carcinogen list

Medical Conditions Aggravated by Exposure: May aggravate existing eye and respiratory conditions.

12. ECOLOGICAL INFORMATION

Product Data: Not established

Ingredient Data: Not established

Elimination Information Expected to be not readily biodegradable. The major oil component is expected to biodegrade over period of 100-120 days in aerobic environment at temperature above 70°F (21°C), however finished product contains components that may persist in the environment. May contain components that bioaccumulate.

13. DISPOSAL CONSIDERATIONS

Product: Dispose of in accordance with applicable regulations.

Container: Empty remaining contents. Empty containers should be taken for local recycling, recovery or waste disposal. Empty containers may contain residues. Do not cut, weld or grind empty containers.

14. TRANSPORT INFORMATION

Road Transport

DOT Hazard Class: Not Regulated

Sea Transport

IMDG/GGV See Class: Not Regulated

Air Transport

ICAO/IATA Class: Not Regulated

15. REGULATORY INFORMATION

U.S. Federal Regulations

Toxic Substances Control Act (TSCA): All components are included on the Inventory

Superfund Amendments and Reauthorization Act (SARA) Title III:

Immediate Hazard	Delayed Hazard	Fire Hazard	Pressure Hazard	Reactivity Hazard
Yes	Yes	No	No	No

16. OTHER INFORMATION

Prepared by: U.S. Corrosion Technologies, LLC Technical Services Department

Revision Date: 1/17/2017

Supersedes Date: Not applicable

Revision Indicator: v1.0 New OSHA 2012 SDS

National Fire Protection Association (704)

Health: 1

Flammability: 1

Reactivity: 0

Other:

The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results and assume no liability for damage incurred by use of this material. All chemicals may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Final determination of suitability of the chemical and application of such products is the sole responsibility of the user. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or any other nature are made hereunder with respect to the information contained herein or the chemical to which the information refers. It is the sole responsibility of the user to comply with all applicable Federal, State and Local Laws and Regulations. Any questions with regards to information contained herein should be referred to: U. S. Corrosion Technologies, LLC (972) 271-7361.