Corrosion Technologies
2850 Industrial Ln
Garland, TX 75041
(972) 271-7361 Fax: (972) 278-9721

Corrosion X® XD Safety Data Sheet

1. IDENTIFICATION

Product Name: **CorrosionX® XD**
Product Numbers: 97002, 97001, 97004, 97005
Product Type and Use: Corrosion Inhibitor / Moisture Displacer / Lubricant
Manufacturer: Corrosion Technologies
2850 Industrial Ln, Garland, TX 75041
Contact: Telephone: 972-271-7361 Fax: 972-278-9721
Distributor in Australia: Applied Industrial Technologies Pty Ltd
22 Stamford Road
Oakleigh VIC
Australia 3166
PO Box 1011, Huntingdale VIC 3166
Tel: +613 9567 8700
AH: +61 427 740 927
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Emergency Telephone: CHEMTREC® USA (800) 424-9300
Outside US +1 (703) 527-3887
Poisons Information Centre: Australia: 13 11 26

2. HAZARDS IDENTIFICATION

Hazard Classification

Health Hazard(s)
Eye Irritation Category 2B

Physical Hazard(s)
None

Hazard(s) not otherwise classified
None

Labeling

Signal Word: **WARNING**
Pictograms: Exclamation Mark

Statements of Hazard

Hazard Statements
Causes eye irritation

Precautionary Statements
Wear protective gloves. Wash thoroughly after handling. Contaminated clothing must not be allowed out of the workplace. 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 attention. If on skin: Wash with plenty of soap and water. If skin irritation or occurs; get medical attention.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Percent by Wt.
Mineral Spirits	8052-41-3	1-5*
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	>50*

* 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.

	ACGIH		OSHA			
Component	**TLV ppm**	**TLV mg/m3**	**PEL ppm**	**PEL mg/m3**	**STEL ppm**	**IDLH mg/m3**
Mineral Spirits	100	Not Est.	Not Est.	Not Est.	500	Not Est.
Distillates (petroleum), hydrotreated heavy paraffinic	Not Est.	5	10	5	Not Est.	2500

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 (%):**	4
Odor:	Petroleum	**Vapor Density (Air=1) :**	>1
Color:	Light brown	**Evaporation Rate (BuAc=1) :**	<0.01
Viscosity, cPs	Not est.	**Vapor Pressure, mmHg @23℃:**	>1 mmHg
pH:	Not applicable	**Solubility in water:**	Negligible
Boiling Point/ Range:	>425℉ / 218℃	**Octanol/Water Partition:**	Not established
Melting Point:	Not established	**VOC Content g/l (%):**	20 (2)
Flash Point:	132℃ / 270℉	**Specific Gravity @15.6℃:**	0.885
Method:	Cleveland Open Cup	**Pour Point:**	-22℉ / -30℃
Lower Explosive Limit, vol %:	4.8	**Non-volatile by volume (%):**	96
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

General information
Exposure to this material may cause adverse effects or damage to the following organs or organ systems: skin, eyes, and lungs.
Information on likely routes of exposure
Ingestion: May cause irritation of the mouth, throat and gastrointestinal tract. Symptoms may include upset stomach and diarrhoea. Aspiration can result in severe injury to the lungs and death.
Inhalation: Under normal conditions, inhalation is not expected to be a problem. However, respiratory tract irritation may occur if exposed to mists or heated vapors.
Skin contact: Not anticipated to cause skin irritation. Prolonged or repeated skin contact as from clothing wet with material may cause dermatitis. May cause allergic contact dermatitis in sensitised individuals. Symptoms may include redness, oedema, drying and cracking of the skin.
Eye contact: May cause transient irritation, lacrimation (tears) and a burning sensation in the eyes.
Information on Toxicological Effects
Acute Toxicity
Product

Acute Toxicity - Oral: Not classified: conclusive data do not meet classification criteria.
Acute Toxicity - Dermal: Not classified: conclusive data do not meet classification criteria.
Acute Toxicity – Inhalation: Not classified: conclusive data do not meet classification criteria.
Skin Corrosion/Irritation: Classification: Not irritating (Read across); Rabbit.
Serious Eye Damage/Eye Irritation: Classification: Irritating (Read across): Rabbit.
Respiratory sensitisation: Due to partial or complete lack of data the classification is not possible.

Skin sensitisation: May cause sensitisation by skin contact. (Supplier information)
Germ cell mutagenicity: Not classified: conclusive data do not meet classification criteria.
Carcinogenicity: Contains mineral oils which are severely refined and not considered carcinogenic. Demonstrated to contain less than 3% extractables by the IP 346 test. Not classified.
Reproductive toxicity: Not classified: conclusive data do not meet classification criteria.
Developmental effects: Not classified: conclusive data do not meet classification criteria.
Fertility: Not classified: conclusive data do not meet classification criteria.
Specific Target Organ Toxicity - Single Exposure: If material is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract.
Specific Target organ toxicity - Repeated Exposure: Not classified: conclusive data do not meet classification criteria.
Aspiration Hazard: Material can be aspirated into the lungs during the act of swallowing or vomiting. This could result in severe injury to the lungs and death.

Distillates (petroleum), hydrotreated heavy paraffinic

Acute Toxicity – Oral: LD50 (Rat): > 5,000 mg/kg (Read across) Not classified: conclusive data do not meet classification criteria.
Acute Toxicity – Dermal: LD50 (Rabbit): > 2,000 mg/kg (Read across) Not classified: conclusive data do not meet classification criteria.
Acute Toxicity – Inhalation: LC50 (Rat): >2000 mg/L (Read across) Not classified: conclusive data do not meet classification criteria.
Skin Corrosion/Irritation: Classification: Not irritating (Read across); Rabbit.
Serious Eye Damage/Eye Irritation: Classification: Irritating (Read across): Rabbit
Respiratory sensitisation: Due to partial or complete lack of data the classification is not possible.
Skin sensitisation: May cause sensitization by skin contact. (Supplier information)
Germ cell mutagenicity: Not classified: conclusive data do not meet classification criteria.
Carcinogenicity: Contains mineral oils which are severely refined and not considered carcinogenic. Demonstrated to contain less than 3% extractables by the IP 346 test. Not classified
Reproductive toxicity: >2,000 mg/kg dermal. Not classified: conclusive data do not meet classification criteria.
Developmental effects: > 150 mg/kg/day, Read across from supporting substance Result: NOAEL
Fertility: >893 mg/kg/day, Read across from supporting substance Result: NOAEL
Specific Target Organ Toxicity - Single Exposure: If material is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract.
Specific Target organ toxicity - Repeated Exposure: Not classified: conclusive data do not meet classification criteria.
Aspiration Hazard: Material can be aspirated into the lungs during the act of swallowing or vomiting. This could result in severe injury to the lungs and death.

Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl

Acute Toxicity – Oral: LD50 (Rat): Not classified for acute toxicity based on available data
Acute Toxicity – Dermal: LD50 (Rabbit): Not classified for acute toxicity based on available data
Acute Toxicity – Inhalation: LC50 (Rat): Not classified for acute toxicity based on available data
Skin Corrosion/Irritation: Classification: Not irritating (Read across); Rabbit.
Serious Eye Damage/Eye Irritation: Classification: Irritating (Supplier information)
Respiratory sensitisation: No data available
Skin sensitisation: May cause sensitization by skin contact. (Supplier information)
Germ cell mutagenicity: Not classified; has not exhibited mutagenic or genotoxic potential in laboratory tests.
Carcinogenicity: No data available
Reproductive toxicity: Not classified: has not exhibited reproductive toxicity potential in laboratory.
Developmental effects: No data available
Fertility: No data available
Specific Target Organ Toxicity - Single Exposure: No data available
Specific Target organ toxicity - Repeated Exposure: Not classified: conclusive data do not meet classification criteria. Evaluated in a 28-day oral gavage study (OECD 407) in rats. Treatment related effects included microscopic changes in the adrenal glands of male and female rats and kidneys of male rats at 150 and 500 mg/kg/day. The NOAEL for this study was 150 mg/kg/day.

Aspiration Hazard: Material can be aspirated into the lungs during the act of swallowing or vomiting. This could result in severe injury to the lungs and death.

12. ECOLOGICAL INFORMATION

Toxicity
Product

Fish: Not toxic to fish but may coat gill structures resulting in suffocation if spilled in shallow, running water.
Toxicity to Terrestrial Plants: If applied to leaves, may kill grasses and small plants by interfering with transpiration and respiration.
Toxicity to Above-Ground Organisms: May be moderately toxic to amphibians by preventing dermal respiration. May cause gastrointestinal distress in birds and mammals through ingestion.

Distillates (petroleum), hydrotreated heavy paraffinic

Fish: LC50 Pimephales promelas > 100 mg/l, 96 hours; Not toxic to fish but may coat gill structures resulting in suffocation if spilled in shallow, running water.
Aquatic Invertebrates: EC50 Daphnia magna > 10000 mg/l, 48 hours; NOEL Daphnia magna 10 mg/l, 21 days
Toxicity to Aquatic Plants: NOEL Pseudokirchnerella subcapitata > 100 mg/l, 72 hours
Toxicity to soil dwelling organisms: No data available
Sediment Toxicity: No data available
Toxicity to Terrestrial Plants: If applied to leaves, may kill grasses and small plants by interfering with transpiration and respiration.
Toxicity to Above-Ground Organisms: May be moderately toxic to amphibians by preventing dermal respiration. May cause gastrointestinal distress in birds and mammals through ingestion.
Toxicity to microorganisms: No data available

Persistence and Degradability
Product

Biodegradation: Not readily biodegradable. Biodegradation is possible with 100 to 120 days in aerobic environments at temperatures above 21 ℃.
BOD/COD Ratio: No data available
Hydrolysis Half-life No data available

12.3 Bioaccumulative Potential: Contains constituents with the potential to bioaccumulate in aquatic organisms.
12.4 Mobility in soil: Not established
12.5 Results of PBT and vPvB Assessment: Does not contain any substances that are assessed to be a PBT or a vPvB
12.6 Other Adverse Effects: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected.

Distillates (petroleum), hydrotreated heavy paraffinic

Biodegradation: Not readily biodegradable. Biodegradation is possible with 100 to 120 days in aerobic environments at temperatures above 21 °C.
BOD/COD Ratio: No data available
Hydrolysis Half-life No data available
12.3 Bioaccumulative Potential: Contains constituents with the potential to bioaccumulate in aquatic organisms.
Bioconcentration Factor (BCF): No data available
Partition Coefficient n-octanol / water (log Kow): >= 4
12.4 Mobility in soil: No data available
12.5 Results of PBT and vPvB Assessment: Not considered to be persistent, bioaccumulative nor toxic (PBT) or very bioaccumulative (vPvB).
12.6 Other Adverse Effects: No data available

Other Adverse Effects: No data available

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods
Product / Packaging Disposal
Product Wastes from Residues/ Unused Product: Recycle waste or used oils whenever possible in accordance with national and regional provisions. Incineration in an approved facility is recommended unless directed otherwise by appropriate authority. Treatment, storage, transportation and disposal must be in accordance with applicable National, State and Territorial regulations.
Contaminated Packaging: Empty remaining contents. Since emptied containers retain product residue, follow label warnings even after container is emptied. Container packaging may exhibit hazards. Empty containers should be taken for local recycling, recovery or waste disposal.
Waste treatment – relevant information: Recycle waste or used oils whenever possible in accordance with National, State and Territorial provisions. Incineration in an approved facility is recommended unless directed otherwise by appropriate authority.
Sewage disposal – relevant information: Waste should not be disposed of by release to sewers.
Other disposal recommendations: Final decisions on the appropriate waste management method, in line with National, State and Territorial provisions and possible adaptation to local conditions, remains the responsibility of the waste treatment operator.

14. TRANSPORT INFORMATION

Shipping descriptions may vary based on mode of transport, quantities, temperature of the material, package size, and/or origin and destination. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material. For transportation, steps must be taken to prevent load shifting or materials falling, and all relating legal statutes should be obeyed.
Road/Rail (ADG and NZS5433:2007 Transport of Dangerous Goods on Land)
Transport hazard class(es) Not regulated as dangerous goods.
Hazchem Code: 2[Z]
International Air Transport Association (IATA) – Air Transport
Transport hazard class(es) Not regulated as dangerous goods.
International Maritime Dangerous Goods Code (IMDG) – Marine Transport
Transport hazard class(es) Not regulated as dangerous goods.
Environmental hazards: Marine Pollutant: No
Transport in bulk according to Annex II of MARPOL and the IBC Code: Not intended to be transported in bulk.

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

Safety, Health and Environmental Regulations/Legislation for the Substance or Mixture
Substances that deplete the ozone layer None
Persistent Organic Pollutants: None
Australia
This material is considered hazardous according to Australia Model Work Health and Safety Regulations.
This material is not regulated according to Australian Dangerous Goods Code.
Australian Inventory of Chemical Substances (AICS) Listing: The chemical components contained within this product are listed on the Australian Inventory of Industrial Chemical and are in compliance with the requirements of the Industrial Chemicals Act 2019 as amended.
Poison Schedule: A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).
New Zealand
Considered a Hazardous Substance according to the criteria of the New Zealand Hazardous Substances New Organisms legislation.
HSNO Classification: 6.4A
HSNO Approval: Corrosion Inhibitors (Subsidiary Hazard) Group Standard 2020 – HSR002549
NZIoC (New Zealand Inventory of Chemicals): All components are listed on the NZIoC inventory or are exempt.
Not classified as a Dangerous Good according to NZS5433:2007 Transport of Dangerous Goods on Land.

16. OTHER INFORMATION

Prepared by: Corrosion Technologies, Technical Services Department
Revision Date: 13 August 2024 **Supersedes Date:** 25 August 2023
Revision Indicator: A5GHS7.1

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, (972) 271-7361.