

U. S. Corrosion Technologies, LLC
P. O. Box 551625
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Aerosol

CorrosionX® Safety Data Sheet

1. IDENTIFICATION

Product Name: CorrosionX® Aerosol
Product Numbers: 90101, 90102
Product Type and Use: Corrosion Inhibitor / Moisture Displacer / Lubricant
Manufacturer: U.S. Corrosion Technologies, LLC
2638 National Drive, Garland, TX 75041
Contact: Telephone: 972-271-7361 Fax: 972-278-9721
Emergency Telephone: CHEMTREC® USA (800) 424-9300
Outside US +1 (703) 527-3887

2. HAZARDS IDENTIFICATION

Hazard Classification

Health Hazard(s)

Eye Irritation Category 2B
Inhalation Category 4

Physical Hazard(s)

Gases Under Pressure Compressed Gas
Flammable Aerosols Category 1

Hazard(s) not otherwise classified

None

Labeling

Signal Word: DANGER
Pictograms: Exclamation Mark, Flame, Gas Cylinder

Statements of Hazard

Hazard Statements

Causes eye irritation
Harmful if inhaled
Extremely flammable aerosol
Contains gas under pressure; may explode if heated

Precautionary Statements

Pressurized container: Do not pierce or burn, even after use. Store in a well-ventilated place. Protect from sunlight. Do not expose to temperatures exceeding 122°F/50°C. Keep away from heat, hot surfaces, sparks and open flames - No smoking. Do not spray on an open flame or other ignition source. Use only outdoors or in a well-ventilated area. Avoid breathing mist and vapors. Wear eye protection and protective gloves. Wash hands thoroughly after handling.
If on skin: Wash with plenty of water. If skin irritation occurs: get medical advice/attention.
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.
If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Percent by Wt.
Hydrotreated light petroleum distillates	64742-47-8	5-10*
Petroleum gases, liquefied, sweetened	68476-86-8	10-15*

* 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 mist or vapor; inhalation overexposure may cause dizziness and drowsiness. Extremely flammable aerosol; keep away from heat, hot surfaces, sparks, hot surfaces and open flame.

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 from skin with mild soap and water.

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. Flame extension: >18 inches, Burnback: > 10 inches

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 local / national regulations.

7. HANDLING AND STORAGE

HANDLING

Precautions for Safe Handling: Avoid eye contact. Use with adequate ventilation. Avoid breathing mist or vapors. Avoid ignition sources. Do not puncture or incinerate container. 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. Avoid excess heating, high temperatures, sparks, hot surfaces, open flames, and all other sources of ignition.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS

Component	ACGIH		OSHA		STEL ppm	STEL mg/m3
	TLV ppm	TLV mg/m3	PEL ppm	PEL mg/m3		
Hydrotreated light petroleum distillates	100	-	500	-	-	-
Petroleum gases, liquefied, sweetened	1000	1800	1000	1800	-	-

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. Remove and wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Transparent	Lower Explosive Limit, vol %:	0.7
Physical State:	Non-viscous liquid	Autoignition Temperature:	Not established
Odor:	Fresh scent	Volatile by volume (%):	18
Color:	Dark-amber	Vapor Density (Air=1) :	>1
Viscosity, cSt @ 40°C:	47.3	Evaporation Rate (BuAc=1) :	<0.01
cSt @ 100°C:	7.0	Vapor Pressure, mmHg @23°C:	>1 mmHg
pH:	Not applicable	Solubility in water:	Insoluble
Boiling Point/ Range:	>400°F / 204°C	Octanol/Water Partition:	Not established
Melting Point:	Not established	VOC Content g/l (%):	180 (18)
Flash Point:	132°C / 270°F	Specific Gravity @15.6°C:	0.871
Method:	Cleveland Open Cup	Pour Point:	-22°F / -30°C
Upper Explosive Limit, vol %:	7	Non-volatile by Volume (%):	82

10. STABILITY AND REACTIVITY

Stability: Stable at ambient temperatures.

Conditions to Avoid: Excess heating above 356°F / 180°C over long periods of time degrades the resin. Avoid high temperatures, sparks, open flame, and all other sources of ignition

Hazardous Polymerization: Will not occur by itself, but masses of more than one pound of product plus an aliphatic amine will cause irreversible polymerization with considerable heat.

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

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information

Acute oral toxicity: Expected to be low toxicity; Orl-rat LD50 > 5,000 mg/kg (estimated)

Acute dermal toxicity: Expected to be low toxicity; Skn-rbt LD50 > 5,000 mg/kg (estimated)

Acute inhalation toxicity: Not determined

Skin corrosion / irritation: May be slightly irritating to sensitive users. Prolonged/repeated contact with skin without adequate cleaning may clog the pores of the skin, may result disorder such as oil acne/folliculitis.

Serious eye damage /irritation: May be slightly irritating

Ingredient Information: Not established

Acute Effects

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

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

Skin Contact: Prolonged or repeated contact may cause irritation in sensitive individuals.

Eye Contact: May cause stinging, tearing and redness.

Ingestion: May cause nausea, vomiting and diarrhea. Ingestion and subsequent vomiting may result in aspiration of the product into the lungs resulting in chemical pneumonitis, pneumonia, and pulmonary edema.

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

Primary Route(s) of Entry: Inhalation, Ingestion

Target Organs: Skin, Eyes, Central Nervous System

Chronic Effects: None known

Carcinogenicity: Highly refined base oil blend (< 3 % DMSO extractable) ACGIH group A4; not classified as human carcinogen.

Medical Conditions Aggravated by Exposure: May aggravate existing eye and respiratory conditions such as asthma and dermatitis.

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 local 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, grind, puncture or incinerate empty containers.

14. TRANSPORT INFORMATION

Road Transport

DOT Hazard Class: ORM-D

Description: Lubricant

Sea Transport

IMDG/GGV See Class: Class 2.1

UN-No.: UN1950

Packing Group: II

Proper Shipping Name: Aerosols, Flammable

Air Transport

ICAO/IATA Class: Class 2.1

UN-No.: UN1950

Packing Group: II

Shipping Name: Aerosols, Flammable

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
X	-	X	X	-

16. OTHER INFORMATION

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

Revision Date: 8/18/2015

Supersedes Date: 5/21/2015

Revision Indicator: Update to OSHA 2012 SDS

National Fire Protection Association (704) Health: 1 Flammability: 4 Reactivity: 0 Other:
NFPA 30 B – Category 3 Aerosol

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.

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Outside US +1 (703) 527-3887

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Eye Irritation Category 2B
Inhalation Category 4

Physical Hazard(s)

Gases Under Pressure Compressed Gas
Flammable Aerosols Category 1

Hazard(s) not otherwise classified

None

Labeling

Signal Word: DANGER
Pictograms: Exclamation Mark, Flame, Gas Cylinder

Statements of Hazard

Hazard Statements

Causes eye irritation
Harmful if inhaled
Extremely flammable aerosol
Contains gas under pressure; may explode if heated

Precautionary Statements

Pressurized container: Do not pierce or burn, even after use. Store in a well-ventilated place. Protect from sunlight. Do not expose to temperatures exceeding 122°F/50°C. Keep away from heat, hot surfaces, sparks and open flames - No smoking. Do not spray on an open flame or other ignition source. Use only outdoors or in a well-ventilated area. Avoid breathing mist and vapors. Wear eye protection and protective gloves. Wash hands thoroughly after handling.
If on skin: Wash with plenty of water. If skin irritation occurs: get medical advice/attention.
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.
If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell.

3. COMPOSITION / INFORMATION ON INGREDIENTS

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Petroleum gases, liquefied, sweetened	68476-86-8	10-15*

* 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 mist or vapor; inhalation overexposure may cause dizziness and drowsiness. Extremely flammable aerosol; keep away from heat, hot surfaces, sparks, hot surfaces and open flame.

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 from skin with mild soap and water.

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. Flame extension: >18 inches, Burnback: > 10 inches

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 local / national regulations.

7. HANDLING AND STORAGE

HANDLING

Precautions for Safe Handling: Avoid eye contact. Use with adequate ventilation. Avoid breathing mist or vapors. Avoid ignition sources. Do not puncture or incinerate container. 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. Avoid excess heating, high temperatures, sparks, hot surfaces, open flames, and all other sources of ignition.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS

Component	ACGIH		OSHA		STEL ppm	STEL mg/m3
	TLV ppm	TLV mg/m3	PEL ppm	PEL mg/m3		
Hydrotreated light petroleum distillates	100	-	500	-	-	-
Petroleum gases, liquefied, sweetened	1000	1800	1000	1800	-	-

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. Remove and wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Transparent	Lower Explosive Limit, vol %:	0.7
Physical State:	Non-viscous liquid	Autoignition Temperature:	Not established
Odor:	Fresh scent	Volatile by volume (%):	18
Color:	Dark-amber	Vapor Density (Air=1) :	>1
Viscosity, cSt @ 40°C:	47.3	Evaporation Rate (BuAc=1) :	<0.01
cSt @ 100°C:	7.0	Vapor Pressure, mmHg @23°C:	>1 mmHg
pH:	Not applicable	Solubility in water:	Insoluble
Boiling Point/ Range:	>400°F / 204°C	Octanol/Water Partition:	Not established
Melting Point:	Not established	VOC Content g/l (%):	180 (18)
Flash Point:	132°C / 270°F	Specific Gravity @15.6°C:	0.871
Method:	Cleveland Open Cup	Pour Point:	-22°F / -30°C
Upper Explosive Limit, vol %:	7	Non-volatile by Volume (%):	82

10. STABILITY AND REACTIVITY

Stability: Stable at ambient temperatures.

Conditions to Avoid: Excess heating above 356°F / 180°C over long periods of time degrades the resin. Avoid high temperatures, sparks, open flame, and all other sources of ignition

Hazardous Polymerization: Will not occur by itself, but masses of more than one pound of product plus an aliphatic amine will cause irreversible polymerization with considerable heat.

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

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information

Acute oral toxicity: Expected to be low toxicity; Orl-rat LD50 > 5,000 mg/kg (estimated)

Acute dermal toxicity: Expected to be low toxicity; Skn-rbt LD50 > 5,000 mg/kg (estimated)

Acute inhalation toxicity: Not determined

Skin corrosion / irritation: May be slightly irritating to sensitive users. Prolonged/repeated contact with skin without adequate cleaning may clog the pores of the skin, may result disorder such as oil acne/folliculitis.

Serious eye damage /irritation: May be slightly irritating

Ingredient Information: Not established

Acute Effects

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

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

Skin Contact: Prolonged or repeated contact may cause irritation in sensitive individuals.

Eye Contact: May cause stinging, tearing and redness.

Ingestion: May cause nausea, vomiting and diarrhea. Ingestion and subsequent vomiting may result in aspiration of the product into the lungs resulting in chemical pneumonitis, pneumonia, and pulmonary edema.

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

Primary Route(s) of Entry: Inhalation, Ingestion

Target Organs: Skin, Eyes, Central Nervous System

Chronic Effects: None known

Carcinogenicity: Highly refined base oil blend (< 3 % DMSO extractable) ACGIH group A4; not classified as human carcinogen.

Medical Conditions Aggravated by Exposure: May aggravate existing eye and respiratory conditions such as asthma and dermatitis.

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 local 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, grind, puncture or incinerate empty containers.

14. TRANSPORT INFORMATION

Road Transport

DOT Hazard Class: ORM-D

Description: Lubricant

Sea Transport

IMDG/GGV See Class: Class 2.1

UN-No.: UN1950

Packing Group: II

Proper Shipping Name: Aerosols, Flammable

Air Transport

ICAO/IATA Class: Class 2.1

UN-No.: UN1950

Packing Group: II

Shipping Name: Aerosols, Flammable

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
X	-	X	X	-

16. OTHER INFORMATION

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

Revision Date: 8/18/2015

Supersedes Date: 5/21/2015

Revision Indicator: Update to OSHA 2012 SDS

National Fire Protection Association (704) Health: 1 Flammability: 4 Reactivity: 0 Other:
NFPA 30 B – Category 3 Aerosol

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.