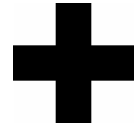




THE DOW CHEMICAL COMPANY MATERIAL SAFETY DATA SHEET



Product Name: Corrosion Inhibitor Concentrate XL
MSDS#: 42218

Effective Date: 07/30/2004
Page 1 of 13

Dow (hereinafter, and for purposes of this MSDS only, refers to The Dow Chemical Company and to Dow Chemical Canada Inc.) encourages and expects you to read and understand the entire MSDS, as there is important information throughout the document. Dow expects you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1.1 IDENTIFICATION

Product Name Corrosion Inhibitor Concentrate XL

1.2 COMPANY IDENTIFICATION

The Dow Chemical Company
Midland, MI 48674

1.3 EMERGENCY TELEPHONE NUMBER

24-HOUR EMERGENCY TELEPHONE NUMBER: (989)636-4400.
Customer Information Number: 1-800-258-2436.

MATERIAL SAFETY DATA SHEET

Product Name: Corrosion Inhibitor Concentrate XL
MSDS#: 42218

Effective Date: 07/30/2004
Page 2 of 13

2. COMPOSITION INFORMATION

Component	CAS #	Amount (%W/W)
Triethanolamine	102-71-6	< 70%
Triethanolamine salt of carboxylic acids	Trade secret	< 20%
Water	7732-18-5	< 15%
Sodium tolyltriazole	64665-57-2	< 3%

3. HAZARDS IDENTIFICATION

3.1 EMERGENCY OVERVIEW

Appearance Yellow to brown

Physical State Liquid

Odor Not available

Hazards of product HARMFUL IF SWALLOWED.
CAUSES EYE AND SKIN IRRITATION.

REPEATED EXPOSURE MAY CAUSE LIVER AND KIDNEY DAMAGE.

3.2 POTENTIAL HEALTH EFFECTS

Effects of Single Acute Overexposure

Inhalation At room temperature, exposure to vapor is minimal due to low volatility; single exposure is not likely to be hazardous. Misting conditions may cause local irritation, dizziness and nausea.

Eye Contact May cause irritation.

MATERIAL SAFETY DATA SHEET

Product Name: Corrosion Inhibitor Concentrate XL
MSDS#: 42218

Effective Date: 07/30/2004
Page 3 of 13

Skin Contact May cause mild irritation upon contact. Prolonged contact or overexposure may cause irritation and discomfort, seen as local redness and swelling.

Skin Absorption No information currently available.

Swallowing May cause gastrointestinal irritation. May cause nausea and vomiting.

Chronic, Prolonged or Repeated Overexposure

Effects of Repeated Overexposure Prolonged and repeated exposure to triethanolamine may cause damage to kidneys and liver.

Other Effects of Overexposure No information currently available.

See Section 11 for toxicological information and additional information about potential health effects.

3.3 POTENTIAL ENVIRONMENTAL EFFECTS

See Section 12 for Ecological Information.

4. FIRST AID PROCEDURES

4.1 INHALATION

Move person to fresh air; if effects occur, consult a physician.

4.2 EYE CONTACT

Flush eyes thoroughly with water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist.

4.3 SKIN CONTACT

Immediately wash skin with soap and plenty of water. Get medical attention immediately if symptoms occur. Remove contaminated clothing. Wash clothing before reuse.

4.4 SWALLOWING

If the patient is fully conscious, give two glasses of water. Do not induce vomiting. Seek medical attention immediately.

4.5 NOTES TO PHYSICIAN

MATERIAL SAFETY DATA SHEET

Product Name: Corrosion Inhibitor Concentrate XL
MSDS#: 42218

Effective Date: 07/30/2004
Page 4 of 13

There is no specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

5. FIRE FIGHTING MEASURES

5.1 FLAMMABLE PROPERTIES - REFER TO SECTION 9, PHYSICAL AND CHEMICAL PROPERTIES

5.2 EXTINGUISHING MEDIA

Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam.

5.3 FIRE FIGHTING PROCEDURES

This product will burn, although not readily. Keep people away. Isolate fire and deny unnecessary entry. Fight fire from a protected location or safe distance. Burning liquids may be moved by flushing with water to protect personnel and minimize property damage.

5.4 SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

Wear positive-pressure, self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire-fighting helmet, coat, pants, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

5.5 UNUSUAL FIRE AND EXPLOSION HAZARDS

No information currently available.

5.6 HAZARDOUS COMBUSTION PRODUCTS

During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic, corrosive and/or irritating.

6. ACCIDENTAL RELEASE MEASURES

Steps to be Taken if Material is Released or Spilled:

Contain spilled material if possible. Collect in suitable and properly labeled containers. See Section 13, Disposal Considerations, for additional information.

Personal Precautions: Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection. Refer to Section 7, Handling for additional precautionary measures.

Environmental Precautions: Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.

MATERIAL SAFETY DATA SHEET

Product Name: Corrosion Inhibitor Concentrate XL
MSDS#: 42218

Effective Date: 07/30/2004
Page 5 of 13

7. HANDLING AND STORAGE

7.1 HANDLING

General Handling

Do not swallow.
Avoid contact with eyes, skin and clothing.
Keep container closed.
Use with adequate ventilation.
Wash thoroughly after handling.

Ventilation

Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.

7.2 STORAGE

Do not transfer the material to unmarked containers. Store in closed containers away from extreme heat, sparks, open flame, or oxidizing materials. Store above 72°F to prevent crystallization.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 EXPOSURE LIMITS

Component	Exposure Limits	Skin. Form
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Triethanolamine	5 mg/m ³ TWA8 ACGIH	
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In the Exposure Limits Chart above, if there is no specific qualifier (i.e., Aerosol) listed in the Form Column for a particular limit, the listed limit includes all airborne forms of the substance that can be inhaled.

A "Yes" in the Skin Column indicates a potential significant contribution to overall exposure by the cutaneous (skin) route, including mucous membranes and the eyes, either by contact with vapors or by direct skin contact with the substance. A "Blank" in the Skin Column indicates that exposure by the cutaneous (skin) route is not a potential significant contributor to overall exposure.

MATERIAL SAFETY DATA SHEET

Product Name: Corrosion Inhibitor Concentrate XL
MSDS#: 42218

Effective Date: 07/30/2004
Page 6 of 13

8.2 PERSONAL PROTECTION

Respiratory Protection: No respiratory protection should be needed.
If a mist is present or the ventilation is poor, then use a mist type respirator.

Ventilation: Good general ventilation should be sufficient for most conditions.
Local exhaust ventilation may be necessary for some operations.

Eye Protection: Safety glasses or monogoggles, as appropriate

Protective Gloves: Use gloves chemically resistant to this material when prolonged or frequently repeated contact could occur.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid

Appearance: Yellow to brown

Odor: Not available

Flash Point - Closed Cup: > 93 °C > 200 °F *Pensky-Martens Closed Cup ASTM D 93*

Flammable Limits In Air:

Lower *No test data available.*

Upper *No test data available.*

Autoignition Temperature: *No test data available.*

Vapor Pressure: < 0.01 mmHg 25 °C

Boiling Point (760 mmHg): > 100 °C > 212 °F

Vapor Density (air = 1): *No test data available.*

Specific Gravity (H₂O = 1): 1.15 at 15 °C / 15 °C

Freezing Point: < 70 °F

Melting Point: *No test data available.*

MATERIAL SAFETY DATA SHEET

Product Name: Corrosion Inhibitor Concentrate XL
MSDS#: 42218

Effective Date: 07/30/2004
Page 7 of 13

Solubility in Water (by weight): 100 % 20 °C

pH: 9.2

10. STABILITY AND REACTIVITY

10.1 STABILITY/INSTABILITY Thermally stable at typical use temperatures.

Incompatible Materials: Avoid contact with: Strong acids. Strong oxidizers.

Thermal Decomposition: Decomposition products depend upon temperature, air supply and the presence of other materials. Decomposition products can include and are not limited to: Carbon monoxide. Carbon dioxide. Nitrogen oxides. Ketones. Aldehydes.

10.2 HAZARDOUS POLYMERIZATION Will not occur.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Peroral

Rat; LD50 = > 2.0 g/kg

Percutaneous

Rabbit = > 10.0 g/kg

MATERIAL SAFETY DATA SHEET

Product Name: Corrosion Inhibitor Concentrate XL
MSDS#: 42218

Effective Date: 07/30/2004
Page 8 of 13

12. ECOLOGICAL INFORMATION

12.1 ENVIRONMENTAL FATE

No information currently available.

12.2 ECOTOXICITY

No information currently available.

12.3 FURTHER INFORMATION

No information available.

13. DISPOSAL CONSIDERATIONS

13.1 DISPOSAL

DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. DOW HAS NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN MSDS SECTION 2 (Composition/ Information on Ingredients). FOR UNUSED & UNCONTAMINATED PRODUCT, the preferred options include sending to a licensed, permitted: Incinerator or other thermal destruction device. As a service to its customers, Dow can provide names of information resources to help identify waste management companies and other facilities which recycle, reprocess or manage chemicals or plastics, and that manage used drums. Telephone Dow's Customer Information Group at 1-800-258-2436 or 1-989-832-1556 (U.S.), or 1-800-331-6451 (Canada) for further details .

Disposal methods identified are for the product as sold. For proper disposal of used material, an assessment must be completed to determine the proper and permissible waste management options permissible under applicable rules, regulations and/or laws governing your location.

MATERIAL SAFETY DATA SHEET

Product Name: Corrosion Inhibitor Concentrate XL
MSDS#: 42218

Effective Date: 07/30/2004
Page 9 of 13

14. TRANSPORT INFORMATION

14.1 U.S. D.O.T.

NON-BULK

Proper Shipping Name : NOT REGULATED

BULK

Proper Shipping Name : NOT REGULATED

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

15. REGULATORY INFORMATION

15.1 FEDERAL/NATIONAL

OSHA HAZARD COMMUNICATION STANDARD

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 TITLE III (EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986) SECTION 313

To the best of our knowledge this product does not contain chemicals at levels which require reporting under this statute.

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 TITLE III (EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986) SECTION 302

To the best of our knowledge this product does not contain chemicals at levels which

MATERIAL SAFETY DATA SHEET

Product Name: Corrosion Inhibitor Concentrate XL
MSDS#: 42218

Effective Date: 07/30/2004
Page 10 of 13

require reporting under this statute.

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 TITLE III (EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986) SECTIONS 311 AND 312

Delayed (Chronic) Health Hazard : Yes
Fire Hazard : No
Immediate (Acute) Health Hazard : Yes
Reactive Hazard : No
Sudden Release of Pressure Hazard : No

TOXIC SUBSTANCES CONTROL ACT (TSCA)

All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.30.

EUROPEAN INVENTORY OF EXISTING COMMERCIAL CHEMICAL SUBSTANCES (EINECS)

The components of this product are on the EINECS inventory or are exempt from EINECS inventory requirements.

CEPA - DOMESTIC SUBSTANCES LIST (DSL)

All substances contained in this product are listed on the Canadian Domestic Substances List (DSL) or are not required to be listed.

15.2 STATE/LOCAL

PENNSYLVANIA (WORKER AND COMMUNITY RIGHT-TO-KNOW ACT): PENNSYLVANIA HAZARDOUS SUBSTANCES LIST AND/OR PENNSYLVANIA ENVIRONMENTAL HAZARDOUS SUBSTANCE LIST:

The following product components are cited in the Pennsylvania Hazardous Substance List and/or the Pennsylvania Environmental Substance List, and are present at levels which require reporting.

Component	CAS #	Amount
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MATERIAL SAFETY DATA SHEET

Product Name: Corrosion Inhibitor Concentrate XL
MSDS#: 42218

Effective Date: 07/30/2004
Page 11 of 13

Triethanolamine

102-71-6

< 70.0000%

PENNSYLVANIA (WORKER AND COMMUNITY RIGHT-TO-KNOW ACT): PENNSYLVANIA SPECIAL HAZARDOUS SUBSTANCES LIST:

To the best of our knowledge this product does not contain chemicals at levels which require reporting under this statute.

CALIFORNIA PROPOSITION 65 (SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986)

To the best of our knowledge this product does not contain chemicals at levels which require reporting under this statute.

CALIFORNIA SCAQMD RULE 443.1 (SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 443.1, LABELING OF MATERIALS CONTAINING ORGANIC SOLVENTS)

VOC: Volatiles = Substances with a vapor pressure of > 0.5 mmHg @ 104 °C (219.2 °F)
Not determined.

This section provides selected regulatory information on this product including its components. This is not intended to include all regulations. It is the responsibility of the user to know and comply with all applicable rules, regulations and laws relating to the product being used.

16. OTHER INFORMATION

16.1 ADDITIONAL INFORMATION

None.

16.2 HAZARD RATING SYSTEM

NFPA ratings for this product are: H - 1 F - 1 R - 0

MATERIAL SAFETY DATA SHEET

Product Name: Corrosion Inhibitor Concentrate XL
MSDS#: 42218

Effective Date: 07/30/2004
Page 12 of 13

These ratings are part of a specific hazard communication program and should be disregarded where individuals are not trained in the use of this hazard rating system. You should be familiar with the hazard communication programs applicable to your workplace.

16.3 RECOMMENDED USES AND RESTRICTIONS

FOR INDUSTRY USE ONLY

Use: Quenchant Inhibitor

Dow recommends that you use this product in a manner consistent with the listed use. If your intended use is not consistent with Dow's stated use, please contact Dow's Customer Information Group at 1-800-258-2436 (U.S.) or 1-800-331-6451 (Canada) for more information.

16.4 REVISION

Version: 1.0

Revision: 07/30/2004

Most recent revision(s) are noted by the bold, double bars in left-hand margin throughout this document.

16.5 LEGEND

Bacterial/NA	Non Acclimated Bacteria
F	Fire
H	Health
IHG	Industrial Hygiene Guideline
N/A	Not available
NFPA	National Fire Protection Association
O	Oxidizer
R	Reactivity
TS	Trade secret
VOL/VOL	Volume/Volume
W	Water Reactive
W/W	Weight/Weight

NOTICE: Dow urges each customer or recipient of this MSDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this MSDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given., Regulatory requirements are subject to

MATERIAL SAFETY DATA SHEET

Product Name: Corrosion Inhibitor Concentrate XL
MSDS#: 42218

Effective Date: 07/30/2004
Page 13 of 13

change and may differ between various locations. It is the buyer's/user's responsibility to ensure that its activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of Dow, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product., Due to the proliferation of sources for information such as manufacturer-specific MSDSs, Dow is not and cannot be responsible for MSDSs obtained from any source other than Dow. If you have obtained a Dow MSDS from a non-Dow source or if you are not sure that a Dow MSDS is current, please contact Dow for the most current version.