

MATERIAL SAFETY DATA SHEET REQUIRED UNDER SAFETY AND HEALTH REGULATION FOR SHIP REPAIRING

DATE UPDATED: SEPTEMBER 15, 2014

SECTION 1. ----- CHEMICAL IDENTIFICATION-----

Product Name EDAC HCL

Product Code(s) EB0433

Recommended Use For Further Manufacturing Use Only

Not for Human or Animal Drug Use

SECTION 2. ----- HAZARDS IDENTIFICATION -----

GHS - Classification

Classification Serious Eye Damage/Irritation 1 Skin Irritant 2

Signal Word Danger

Hazard Statements H318 - Causes serious eye damage H315 - Causes skin irritation

Precautionary Statements P280 - Wear protective gloves/protective clothing/eye protection/face protection

P302+ P352 - IF ON SKIN: Wash with plenty of soap and water P304 + P340 -

IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing P310 - Immediately call a POISON CENTRE or

doctor/physician

SECTION 3. - - - - COMPOSITION/INFORMATION ON INGREDIENTS - - - - -

Chemical Name	EC No.	REACH Reg. No.	CAS-No	Weight %	Classification
1,3-Propanediamine, N`-(ethylcarbonimidoyl)-N,N-di methyl-, monohydrochloride	EEC No. 247-361-2	Not available	25952-53-8	100	-

SECTION 4. ----- FIRST-AID MEASURES-----

Eye Contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a

physician.

Skin Contact Wash off immediately with soap and plenty of water removing all contaminated

clothes and shoes.

Inhalation Move to fresh air. If breathing becomes difficult, give oxygen.

Ingestion Clean mouth with water and afterwards drink plenty of water.

Notes to Physician Treat symptomatically.

SECTION 5. ----- FIRE FIGHTING MEASURES -----

Flammable Properties Not flammable.

Flash Point Not determined

Suitable Extinguishing Media Dry chemical, CO2, water spray or regular foam.

Hazardous Combustion Products Carbon oxides.

Explosion Data

Sensitivity to Mechanical ImpactNot sensitive.Sensitivity to Static DischargeNot sensitive.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent) and

full protective gear.

SECTION 6. ----- ACCIDENTAL RELEASE MEASURES-----

Personal Precautions Avoid contact with skin, eyes and clothing. Use personal protective equipment. Ensure

adequate ventilation.

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up Avoid dust formation. Pick up and transfer to properly labeled containers. Ventilate area

and wash spill site after material pickup is complete.

SECTION 7. ----- HANDLING AND STORAGE-----

Handling Handle in accordance with good industrial hygiene and safety practice.

Hygroscopic.

Storage Keep containers tightly closed in a dry, cool and well-ventilated place.

Hygroscopic.

Incompatible Products Strong oxidizing agents. Acids.

SECTION 8. - - - - EXPOSURE CONTROLS/PERSONAL PROTECTION - - - -

Engineering Measures Showers

Eyewash stations Ventilation systems.

Personal Protective Equipment

Eye/Face ProtectionSkin and Body Protection

Tightly fitting safety goggles.

Wear protective gloves/clothing.

Respiratory Protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. ----- PHYSICAL AND CHEMICAL PROPERTIES -----

Appearance White

Odor No information available
Odor Threshold No information available
Decomposition Temperature °C No information available
Freezing Point No information available
Initial Boiling Point No information available

Physical State Powder

pH No data available
Flash Point Not determined
Autoignition Temperature No data available
Boiling Point/Range No data available
Melting Point/Range No data available

Flammability Limits in Air Upper No data available Lower No data available

Explosive Properties
Oxidizing Properties
Evaporation Rate
MMHG @ 37.8 C
No information available
No data available
No data available

Vapor Density

Specific Gravity

Solubility

No data available
No data available
No data available
No information available

Partition Coefficient No data available

(n-octanol/water)

Viscosity No information available

SECTION 10. ------STABILITY AND REACTIVITY -----

Stability Stable under recommended storage conditions.

Incompatible Products Strong oxidizing agents. Acids.

Conditions to Avoid Protect from moisture.

Hazardous Decomposition Products Carbon oxides. Nitrogen oxides (NOx). Hydrogen chloride gas.

Hazardous Polymerization Hazardous polymerization does not occur.

SECTION 11. ----- TOXICOLOGICAL INFORMATION -----**Acute Toxicity Product Information** Risk of serious damage to eyes. Causes skin irritation. May be harmful by inhalation, ingestion, or skin absorption. **Chronic Toxicity Chronic Toxicity** No known effect based on information supplied. **Target Organ Effects** None known. SECTION 12. ----- ECOLOGICAL INFORMATION -----The environmental impact of this product has not been fully investigated. SECTION 13. ----- DISPOSAL CONSIDERATIONS -----Dispose of material in accordance with all federal, state, and local regulations **Waste Disposal Method Contaminated Packaging** Dispose of in accordance with all federal, state and local regulations SECTION 14. ----- TRANSPORT INFORMATION -----**IATA** Not regulated DOT Not regulated SECTION 15. ----- REGULATORY INFORMATION -----**REACH Title VII Restrictions** No information available.

Chemical Name	Dangerous Substances	Organic Solvents	Harmful Substances Whose Names Are to be Indicated on the Label	Pollution Release and Transfer Registry (Class II):	Pollution Release and Transfer Registry (Class I):	Poison and Deleterious Substances Control Law:
1,3-Propanediamine, N`-(ethylcarbonimidoyl)- N,N-dimethyl-, monohydrochloride	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

Component	ISHA - Harmful Substances Prohibited for Manufacturing, Importing, Transferring, or Supplying	ISHA - Harmful Substances Requiring Permission	Toxic Chemical Classification Listing (TCCL) - Toxic Chemicals	Toxic Release Inventory (TRI) - Group I	Toxic Release Inventory (TRI) - Group II
1,3-Propanediamine, N`-(ethylcarbonimidoyl)-N, N-dimethyl-, monohydrochloride 25952-53-8 (100)	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

International Inventories

TSCA Complies
EINECS/ELINCS Complies
ENCS Complies
IECSC Complies
KECL Does not Comply
PICCS Does not Comply
AICS Complies

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

CERCLA

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

International Regulations

Mexico - Grade No information available.

Canada

WHMIS Hazard Class

E Corrosive material D2B Toxic materials





SECTION 16. ----- OTHER INFORMATION-----

Issuing Date 13-Aug-2009 **Revision Date** 15-Sept-2014

Revision Note No information available.

Recommended Restrictions No information available

Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS