



P.O. Box 195, Brownsburg, IN 46112
 Ph: 317-852-8966
Emergency Telephone No: 800-535-5053

MATERIAL SAFETY DATA SHEET

I. PRODUCT IDENTIFICATION

Product Name or Chemical Name.....**SLT-48**
 Synonyms.....N/A
 Chemical Family.....Internal Boiler Condensate Treatment
 NFPA – Health Hazard.....2
 Fire Hazard.....2
 Reactivity Hazard.....0
 NFPA Scale.....4=Extreme 3=High 2=Moderate 1=Slight 0=Insignificant

II. HAZARDOUS INGREDIENTS

<u>Chemical Name(s)</u>	<u>CAS Number</u>	<u>% Wt</u>	<u>TLV-TWA</u>	<u>PEL</u>	<u>SEC.313</u>	<u>Carcinogen?</u>
Cyclohexylamine	108-91-8	<10	10 ppm	10 ppm	No	No
Morpholine	110-91-8	<25	20 ppm	20 ppm	No	No

III. SHIPPING DATA

DOT Proper Shipping Name:..... Amines, Liquid, Corrosive, N.O.S. (Cyclohexylamine, Morpholine)
 DOT Hazard Class..... 8
 DOT Labels Required..... Corrosive
 UN/NA ID Number..... UN 2735
 Packaging Group..... II
 Non-Bulk Shipping Name..... Amines, Liquid, Corrosive, N.O.S. (Cyclohexylamine, Morpholine),
 8, UN 2735, PG II
 Bulk Shipping Name..... Same

IV. PHYSICAL DATA

Boiling/Freezing Point @760 mmHg.....ND
 pH.....12
 Vapor Pressure mmHg @20°C.....ND
 Vapor Density (Air=1).....=1
 Percent Volatile by Weight (%).....100
 Specific Gravity @20°C.....0.99
 Solubility in Water.....Complete
 Evaporation Rate.....(Water=1) ~1
 Appearance and Odor.....Clear to yellow liquid with strong amine odor.

V. FIRE & EXPLOSION HAZARD DATA

Flash Point (Test Method).....160°F (71°C) T.C.C.
 Autoignition Temperature.....ND
 Flammability Limits in Air (% V).....ND
 Extinguishing Media.....Water fog or spray, carbon dioxide, alcohol foam
 Special Fire Fighting Procedures.....Dilution with water will reduce intensity of flames. Cover all
 spills with foam to minimize vapor release. Wear self-
 contained breathing apparatus.
 Unusual Fire & Explosion Hazards.....Closed containers may rupture when exposed to extreme heat.
 Material is a fire hazard in presence of heat, flame, or
 oxidizers.



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VI. REACTIVITY DATA

Product Stability.....Stable
 Conditions to Avoid.....Temperatures above 100°F (38°C), ignition sources
 Chemical Incompatibility.....Strong acids, strong oxidizers, nitrosating agents, copper, zinc
 Hazardous Decomposition ProductsOxides of nitrogen, carbon dioxide, carbon monoxide,
 hydrogen gas, ammonia
 Hazardous Polymerization.....Will not occur

VII. HEALTH HAZARD DATA

Skin ContactMay cause severe irritation, chemical burns and skin sensitization.
 Eye ContactMay cause chemical burns and irreversible damage.
 InhalationInhalation of high vapor concentrations may produce irritation of respiratory tract and
 lungs.
 IngestionCorrosive to mucous membranes. May cause severe gastric irritation.

VIII. EMERGENCY AND FIRST AID PROCEDURES

Skin.....Remove contaminated clothing and flush exposed skin with soap and water. If irritation
 persists or develops, get medical attention. Launder contaminated clothing before
 reuse.
 Eyes.....Immediately flush eyes with large amounts of water for 15 minutes and get medical
 attention.
 IngestionIf swallowed, DO NOT INDUCE VOMITING. Get medical attention immediately. Never
 give anything by mouth to an unconscious person.
 InhalationMove to fresh air. Aid in breathing, if necessary, and get medical attention.

IX. ENVIRONMENTAL DATA

Spill or Leak Procedures Keep upwind and avoid skin contact. Eliminate ignition sources. Neutralize
 with sodium bisulfate if possible. Absorb with sand or inert material and
 place in suitable container for disposal.
 Waste Disposal..... Corrosive. Dispose of in accordance with all federal, state and local
 regulations.
 Hazardous Water 40CFR261..Yes. Hazardous Waster Number: D002
 Container Disposal Empty containers may contain residuals. Thoroughly clean, then offer for
 recycling, reuse, or disposal in accordance with governmental regulations.

X. SPECIAL PROTECTION INFORMATION

Respiratory Protection NIOSH/MSHA approved can or cartridge respirator for gas and vapor as
 needed to maintain P.E.L.
 Ventilation..... Local and/or mechanical exhaust to maintain exposure below P.E.L.
 Protective Clothing Neoprene gloves, full chemical suit, boots – as necessary to prevent skin
 contact.
 Eye Protection Chemical goggles and/or full face shield.
 Other Precautions..... Safety shower and eyewash fountains should be easily accessible.

XI. SUPPLIER INFORMATION

This information is furnished without warranty, expressed or implied, except that it is accurate to the best
 knowledge of manufacturer. The data on this sheet relates only to the specific material designated herein.
 Manufacturer assumes no legal responsibility for use or reliance upon this data.

N/A = Not Available ND = Not Determined

Revised Date: 8/06