ZEE COMPANY INC
SOLUTIONS FOR EXCELLENCE
A Member of The Vincit Group

MATERIAL SAFETY DATA SHEET

I. GENERAL INFORMATION

PRODUCT NAME: STEAM 150

DISTRIBUTOR'S ADDRESS: ZEE Company, Inc.
4146 South Creek Road
Chattanooga, TN 37406

24 HOUR EMERGENCY PHONE: 1-800-424-9300

TRADE NAME: NEUTRALIZING AMINE

CHEMICAL FORMULA: PROPRIETARY
CHEMICAL FAMILY: BOILER WATER TREATMENT

HEALTH	1
FLAMMABILITY	1
REACTIVITY	1
PERSONAL PROTECTION	D

II. HAZARDOUS INGREDIENTS

PRINCIPAL HAZARDOUS INGREDIENT(S):	% OF PRODUCT	PEL / TLV	CAS NO.
MORPHOLINE	<10	PEL:20PPM;71MG/M(PER8HRTWA;TLV:20 71MG/M(3)PER 8HRT	110-91-8
CYCLOHEXYLAMINE	<10	PEL:10PPM;41MG/M(PER8HRTWA;TLV:10 41MG/M(3)PER 8HRT	108-91-8
DIETHYLETHANOLAMINE	<10	PEL:10PPM:TLV48MG	100-37-8

III. PHYSICAL DATA

BOILING POINT (F):	>270(F)	SPECIFIC GRAVITY (H20=1):	0.994
VAPOR PRESSURE:	NE	PERCENT VOLATILE BY WEIGHT (%)	100
VAPOR DENSITY:	>3.00	MELTING / FREEZING POINT (F):	N/A
SOLUBILITY IN WATER:	COMPLETE	PH:	APPROXIMATELY 12.0
APPEARANCE AND ODOR:	CLEAR LIQUID		

IV. FIRE AND EXPLOSION DATA

FLASH POINT: N/A
AUTO IGNITION TEMPERATURE: NE
FLAMMABLE LIMITS IN AIR, VOLUME PERCENTAGE (%): UPPER: N/A LOWER: N/A
EXTINGUISHER MEDIA: AS USED ON SURROUNDING FIRE
SPECIAL FIRE FIGHTING PROCEDURES: FIRE FIGHTERS SHOULD WEAR FULL PROTECTIVE CLOTHING WITH SELF-CONTAINED BREATHING APPARATUS WHEN FIGHTING FIRES INVOLVING STEAM 150.

UNUSUAL FIRE/EXPLOSION HAZARDS: STEAM 150 CONTAINS FLAMMABLE MATERIALS. COOL CONTAINERS FROM SIDE WITH WATER UNTIL FIRE IS OUT.

V. PHYSICAL HAZARDS

STABILITY: STABLE CONDITIONS TO AVOID: EXTREME HEAT
MATERIALS TO AVOID: OXIDIZING MATERIALS AND MINERAL ACIDS.
HAZ. POLYMERIZATION: WILL NOT OCCUR CONDITIONS TO AVOID: NA
HAZARDOUS DECOMPOSITION PRODUCTS: CARBON MONOXIDE, CARBON DIOXIDE, NITROGEN OXIDES

VI. HEALTH HAZARDS

ACUTE: IRRITANT CHRONIC: NONE

SIGNS AND SYMPTOMS OF EXPOSURE: REPEATED AND PROLONGED CONTACT WITH STEAM 150 MAY RESULT IN SKIN AND EYE IRRITATION AND POSSIBLE TISSUE INJURY.

MEDICAL CONDITIONS GENERALLY AGGREVATED BY EXPOSURE: EXCESSIVE BREATHING OF STEAM 150 VAPORS OR MISTS MAY IRRITATE AIR PASSAGES AND PRE-EXISTING MEDICAL CONDITIONS.

LISTED AS POTENTIAL CARCINOGEN/POTENTIAL CARCINOGEN: IARC: NO NATIONAL TOXICOLOGY PROGRAM: NO

VII. EMERGENCY AND FIRST AID PROCEDURES

TREAT SYSTEMATICALLY AS OUTLINED BELOW:

INHALATION: IF AFFECTED, REMOVE PERSON TO FRESH AIR. IF BREATHING STOPS, ADMINISTER ARTIFICIAL RESPIRATION. SEEK MEDICAL ATTENTION.

SKIN: THOROUGHLY WASH EXPOSED AREA WITH SOAP AND WATER. CONSULT A PHYSICIAN IF IRRITATION OCCURS.

EYES: FLUSH WITH CLEAN WATER FOR AT LEAST 15 MINUTES, LIFTING UPPER AND LOWER EYE LIDS OCCASIONALLY. GET MEDICAL ATTENTION IMMEDIATELY.

INGESTION: IF PERSON IS CONSCIOUS, GIVE WATER TO DILUTE. DO NOT INDUCE VOMITING. SEEK MEDICAL ATTENTION IMMEDIATELY.

VIII. ENVIRONMENTAL DATA: SPILL AND DISPOSAL PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

LARGE AND SMALL SPILL: LARGE AND SMALL SPILL: COMPLETELY CONTAIN ALL SPILLED MATERIAL. ABSORB ONTO INERT COMPOUND AND RECLAIM TO A CLOSED DOT APPROVED CONTAINER. RESIDUE MAY BE FLUSHED TO WASTE WITH LARGE QUANTITIES OF WATER. SEE SECTION X FOR MORE REGULATORY INFORMATION.

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WASTE DISPOSAL METHODS: WASTE DISPOSAL METHODS: DISPOSE OF CONTAMINATED PRODUCT VIA AN APPROVED CHEMICAL WASTE DISPOSAL FIRM AND IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.

IX. CONTROL MEASURES

RESPIRATORY PROTECTION: NIOSH-APPROVED ORGANIC VAPOR RESPIRATOR FOR EXPOSURES ABOVE OSHA PEL.

VENTILATION: LOCAL EXHAUST: PREFERRED

PROTECTIVE GLOVES: RUBBER RECOMMENDED

EYE PROTECTION: CHEMICAL SPLASH GOGGLES

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: IMPERVIOUS CLOTHING: IE. BOOTS, APRONS.

WORK/HYGENIC PRACTICES: CONTAMINATED CLOTHING SHOULD BE LAUNDERED BEFORE REUSE.

OTHER: SAFETY SHOWER AND EYE WASH STATIONS SHOULD BE PROVIDED.

X. REGULATORY INFORMATION

DOT SHIPPING NAME: AMINES LIQUID, CORROSIVE, N.O.S.,(CYCLOHEXYLAMINE, MORPHOLINE), 8, UN 2735, PG II

HAZARD CLASSIFICATION: CORROSIVE UN / NA NUMBER: UN 2735

DOT LABEL REQUIRED: CORROSIVE

SARA TITLE III REPORTING: SECTION 311: X SECTION 312: X SECTION 313: NA

SARA 313 REPORTABLE PRODUCT: NA

SARA TPQ: 15,165 GALLONS DUE TO CYCLOHEXYLAMINE CONTENT.

CERCLA REPORTABLE QUANTITY OF PRODUCT: NA

HMIS RATING: HEALTH 1 FLAMMABILITY 1 REACTIVITY 1

DATE PREPARED: JANUARY 2003

PREPARED BY: CHRIS BUNCH

NE = Not Established N/A = Not Applicable NR = Not Required < = Less Than > = Greater Than

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