



MATERIAL SAFETY DATA SHEET

Volamine 119N

REVISION DATE 5/1/1996

SECTION 1

MANUFACTURER INFORMATION

Mid-West Solutions, Inc. 11193 Lawrence Dr. Crown Point, IN 46307 (219)661-8230
24 Hour HAZARDOUS EMERGENCY (SPILL/LEAK/FIRE/EXPOSURE/ACCIDENT) 1-800-451-8346

SECTION 2

PRODUCT IDENTIFICATION

PRODUCT # Volamine 119N
CHEMICAL NAME AMINE
SYNONYMS NA
CHEMICAL FAMILY Internal Boiler Condensate Treatment
NFPA HEALTH HAZARD 2
FIRE HAZARD 0
REACTIVITY HAZARD 1

NFPA SCALE.....4=EXTREME.....3=HIGH....2=MODERATE....1=SLIGHT....0=INSIGNIFICANT

SECTION 3

HAZARDOUS INGREDIENTS

CHEMICAL NAMES	CAS #	% WT	TLVITVA	PEL	SEC. 313	CARCINOGEN?
Cyclohexylamine	108-91-8	<10	10ppm	10ppm	No	No
Morpholine	110-91-8	<90	71 mg/m ³		No	No

END OF HAZARDOUS INGREDIENTS

SECTION 4

SHIPPING DATA

D.O.T. PROPER SHIPPING NA
D.O.T. HAZARD CLASS NA
D.O.T. LABELS REQUIRED NA
UN NA I.D. NUMBER NA
PACKAGING GROUP NA

SHIPPING DOCUMENTATION Compounds, Boiler Cleansing, Liquid

SECTION 5

PHYSICAL DATA

BOILING FREEZING POINT @ 760mmHg ND

PH >12

VAPOR PRESSURE mmHg@20C ND

VAPOR DENSITY AIR is1 >1

PERCENT VOLATILE BY WEIGHT 99.5%

SPECIFIC GRAVITY @ 20C ND

SOLUBILITY IN WATER COMPLETE

EVAPORATION RATE >1

APPEARANCE IODOR Clear water/white Gel with Amine odor

SECTION 6
FIRE AND EXPLOSIVE HAZARD DATA

FLASH POINT TEST METHOD	NA
AUTOIGNITION TEMPERATURE	NA
FLAMMABILITY LIMITS IN AIR PERCENT	V NA
EXTINGUISHING MEDIA	Not Combustible
SPECIAL FIREFIGHTING PROCEDURES	Wear self-contained breathing apparatus & full protective clothing
UNUSUAL FIRE IEXPLOSION HAZARDS	NA

SECTION 7
REACTIVITY DATA

PRODUCT STABILITY	Stable
CONDITIONS TO AVOID	NA
CHEMICAL INCOMPATIBILITY	Strong acid
HAZARDOUS DECOMPOSITION	Burning may produce carbon monoxide, carbon dioxide & nitrogen oxide.
HAZARDOUS POLYMER	Will not occur
CORROSIVE TO STEEL	No

SECTION 8
HEALTH HAZARD DATA

SKIN CONTACT	May cause irritation upon contact
EYE CONTACT	May cause moderate to severe irritation upon contact.
INHALATION	Airborne mists may cause mild irritation to respiratory passages.
INGESTION	Safety shower and eyewash fountains should be easily accessible.

SECTION 9
EMERGENCY AND FIRST AID PROCEDURES

SKIN	Remove contaminated clothing & flush skin w/soap & water. If irritation persists get medical attention.
EYES	Immediately flush eyes with generous amounts of water for at least 15 min & get medical attention.
INGESTION	If swallowed, DO NOT INDUCE VOMITING. Get medical attention immediately.
INHALATION	Move to fresh air. Aid in breathing, if necessary and get medical attention.

SECTION 10
ENVIRONMENTAL DATA

SPILL/LEAK PROCEDURE	Keep upwind. Absorb w/sand or inert material & properly dispose. Do not flush to waterway
WASTE DISPOSAL METHOD	Dispose of in accordance with all federal, state and local regulations.
HAZARDOUS WASTE 40CFR261	NA

CONTAINER DISPOSAL	Empty containers may contain residuals. Thoroughly clean then offer for recycling, reuse, or dispose of in accordance with all regulations. For industrial use only. Keep in cool, dry place.
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SECTION 11
SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION	Respirator not required with most applications.
VENTILATION	Local exhaust is generally sufficient to minimize exposure.
PROTECTIVE CLOTHING	Neoprene gloves, apron, boots - as necessary to prevent skin contact.
EYE PROTECTION	Chemical goggles
OTHER PRECAUTIONS	May cause irritation to esophageal linings if swallowed.

SECTION 12
SUPPLIER INFORMATION

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