

M A T E R I A L S A F E T Y D A T A S H E E T

24-hour Emergency Phone: (800)255-3924

PRODUCT CODE: 4973

PRODUCT NAME: NOVA/FIVE
PRODUCT CODE: 4973

HMIS CODES: H C F R P
3 1 0 G

WHMIS CLASS: Not Determined

===== SECTION I - MANUFACTURER IDENTIFICATION =====

MANUFACTURER'S NAME: ATCO International
ADDRESS : 2136 Kingston Court
Marietta, GA 30067-8902
INFORMATION PHONE : (770)424-7550

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PREPARED BY: MAURICIO A. AMAYA, DIRECTOR OF TECHNICAL SERVICES
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===== SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION =====

REPORTABLE COMPONENTS (PART B ONLY)	CAS NUMBER	PEL	TLV	WEIGHT PERCENT
Polyoxypropylenediamine	NONE	ND	ND	60-70%
Nonylphenol	NONE			20-30%

===== SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS =====

BOILING RANGE:	ND	SPECIFIC GRAVITY (H2O=1):	1.10
VAPOR DENSITY:	ND	EVAPORATION RATE:	ND
DENSITY:	9.179 lb/gl	MATERIAL V.O.C.:	ND
SOLUBILITY IN WATER:	NEGLIGIBLE.	pH (Concentrate):	7.0
APPEARANCE:	CLEAR LIGHT YELLOW LIQUID.	pH (Diluted):	NA
ODOR:	CHARACTERISTIC.		

===== SECTION IV - FIRE AND EXPLOSION HAZARD DATA =====

OSHA FLAMMABILITY CLASSIFICATION: CLASS IIIB
FLASH POINT: >200 F METHOD USED: SETA
FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: ND UPPER: ND

EXTINGUISHING MEDIA: Water fog, Carbon dioxide, Dry chemical, or Foam.

SPECIAL FIREFIGHTING PROCEDURES: Potentially hazardous in fire. Wear self-contained breathing apparatus. If water is used as an extinguishing media, diking is required to keep contaminated water out of all water supplies.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None. However, containers may burst if overheated in fire. Cool containers using water spray or water fog nozzles.

===== SECTION V - REACTIVITY DATA =====

STABILITY: Product is stable under normal conditions.

CONDITIONS TO AVOID: Avoid heat and mixing with other chemicals.

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INCOMPATIBILITY (MATERIALS TO AVOID): Acids, strong oxidizers (i.e. chlorine, peroxides, nitrites).

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Thermal decomposition and or burning may produce oxides of carbon and various hydrocarbons.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

===== SECTION VI - HEALTH HAZARD DATA =====

PRIMARY ROUTES OF ENTRY: Inhalation X Eye Contact X
Skin Contact X Ingestion

EXPOSURE LIMIT: Refer to Section II for PEL / TLV exposure limits.

ACUTE EFFECTS OF OVEREXPOSURE

INHALATION: Excessive inhalation of vapors can cause nasal & respiratory irritation, dizziness, weakness, nausea, possible unconsciousness or asphyxiation.

EYE CONTACT: May cause permanent eye injury or blindness.

SKIN CONTACT: Corrosive to skin. Dermatitis may result from repeated exposure.

SKIN ABSORPTION: May be harmful if absorbed through skin.

INGESTION: Harmful if swallowed. Corrosive effects. Can cause severe burns and complete tissue perforation of mucous membranes of mouth, throat and stomach.

CHRONIC EFFECTS OF OVEREXPOSURE: Inhalation or ingestion of material can be irritating and cause burning of the nose, throat and eyes, coughing, and tightness of the chest. Severe overexposure may result in difficulty breathing, headache, nausea, vomiting, drowsiness loss of coordination

CARCINOGENICITY: NTP CARCINOGEN: IARC MONOGRAPHS: OSHA REGULATED:

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY OVEREXPOSURE: Pre-existing skin and lung disorders may be aggravated by prolonged or repeated occupational overexposures.

EMERGENCY AND FIRST AID PROCEDURES

INHALATION: Remove to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid immediately.

EYE CONTACT: Immediately flush eyes with large amounts of cool running water for at least 15 minutes while holding upper and lower lids open. If irritation persists get medical attention immediately.

SKIN CONTACT: In case of contact, immediately flush skin with soap and water for at least 15 minutes. Remove contaminated clothing and shoes. Wash and thoroughly clean contaminated clothing and shoes before reuse.

INGESTION: Immediately rinse mouth with water. NEVER give anything by mouth to an unconscious person. DO NOT INDUCE VOMITING unless instructed to do so by a physician or poison control center. Get immediate medical attention.

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===== SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE =====

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Stop source of spill. Absorb with inert absorbant material and dispose of in a manner consistant with applicable regulations.

WASTE DISPOSAL METHOD: Dispose of in accordance with applicable Federal, State, and local regulations. Under RCRA regulations, it is the responsibility of the product user to determine, at the time of disposal, whether a material is hazardous.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Do not store above 120 F. Keep closure tight and container upright to prevent leakage. Store drum out of sunlight and away from heat, sparks, or flame. Store only in well-ventilated areas.

OTHER PRECAUTIONS: Do not get in eyes. Avoid skin contact.

===== SECTION VIII - PERSONEL SAFETY MEASURES =====

RESPIRATORY PROTECTION: Wear an appropriate, properly-fitted respirator (NIOSH/MSHA approved) during and after application unless air monitoring demonstrates that vapor/mist levels are below applicable limits. Follow respirator manufacturer's directions for respirator use.

VENTILATION: Local mechanical exhaust to provide normal ventilation.

PROTECTIVE GLOVES: Impervious gloves recommended.

EYE PROTECTION: Use safety eyewear designed to protect against splash of liquids.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Eyewash, safety shower, impervious clothing and boots.

WORK/HYGIENIC PRACTICES: Wash thoroughly after handling.

===== SECTION IX - REGULATORY INFORMATION =====

TOXIC SUBSTANCES CONTROL ACT (TSCA): All chemical components in this product are listed on the TSCA Inventory List, or are exempt from listing.

SARA Section 312 HAZARD CATEGORIES: Fire Hazard X Reactivity Hazard X

Acute Health Hazard X Chronic Health Hazard Pressure Hazard

SARA Section 313 REPORTABLE COMPONENTS: (See Section II, If Applicable)

===== SECTION X - SHIPPING INFORMATION =====

DOT SHIPPING NAME: Polyamines, Liquid, Corrosive, N.O.S. (Polyoxypropylenediamine)

DOT HAZARD CLASS: Class 8

UN NUMBER: UN2735

DOT PACKING GROUP: Group III

SPECIAL SHIPPING INFORMATION: Not Applicable

===== DISCLAIMER =====

The information on this Material Safety Data Sheet represents our current available data and best opinion as to the proper handling in use of this product under normal conditions. Any use of this product which is not in conformance with this Data Sheet or which involves using this product in combination with other materials, or processes is the sole responsibility of the user.