



ZEP MANUFACTURING COMPANY
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Material Safety Data Sheet
 and Safe Handling and Disposal Information

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 Supersedes
 Product Name **ZEP 45 NC NA**
 Product No. **0762**

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SECTION I - EMERGENCY CONTACTS

For MSDS Information:
 Acuity Specialty Products Group, Inc.
Compliance Services 1-877-I-BUY-ZEP

For Medical Emergency:
 INFOTRAC
(877) 541-2016 Toll Free - All Calls Recorded

For a Transportation Emergency:
 CHEMTREC
(800) 424-9300 - All Calls Recorded
In the District of Columbia (202) 483-7616

SECTION II - HAZARDOUS INGREDIENTS

** LIGHT ALIPHATIC NAPHTHA ** solvent naphtha (petroleum), medium aliphatics; formerly: light aromatic naphtha; CAS# 64742-88-7; RTECS# NONE; OSHA PEL 500ppm; TLV - 100; EFFECTS - IRR CBL; % IN PROD - 40-50
 ** PARAFFIN OIL ** blend of heavy and light naph_ thenic petroleum distillate; CAS# 64742-52-5; RTECS# NONE; OSHA PEL - N/D; ACGIH OIL MIST LIMIT= 5mg/m3 ; TLV - N/D; EFFECTS - IRR; % IN PROD - 15-25
 ** MINERAL SEAL OIL ** (mineral oil); petrolatum; CAS# 64742-30-9; RTECS# - NONE; ACGIH/OSHA OIL MIST LIMIT = 5 mg/m3; TLV - N/A; EFFECTS - IRR; % IN PROD - 5-15
 ** BLEND OF [AMYL ACETATE; CAS# 628-63-7; RTECS# AJ1925000], [3-METHYL BUTYL ACETATE; CAS# 123-92-2; RTECS# NS9800000] & [2-METHYL BUTYL ACETATE; CAS# 624 -41-9; RTECS# NONE] ** OSHA PEL-100 ppm for 628-63-7; TLV - 100; EFFECTS - IRR CBL; % IN PROD - < 10
 ** 2-ETHYL HEXYL ALCOHOL ** 2-ethyl-1-hexanol; ethyl_ hexanol; CAS# 104-76-7; RTECS# MP0350000; OSHA PEL N/D ; TLV - N/D; EFFECTS - IRR CBL; % IN PROD - < 10

SECTION III - HEALTH HAZARD DATA

SPECIAL NOTE: MSDS data pertains to the product as dispensed from the container. Adverse health effects would not be expected under recommended conditions of use (diluted) so long as prescribed safety precautions are practiced.

ACUTE EFFECTS OF OVEREXPOSURE:
 Overexposure to the vapors from this product may produce mucous membrane irritation, particularly of the eye and respiratory tract. Overexposure to vapors may also produce mild central nervous system depression characterized by headache, dizziness, nausea, and stupor, leading to unconsciousness in extreme cases. Introduction of solvents, as in aspiration of vomitus fluid, may produce chemical pneumonia. Existing respiratory disorders and lung diseases may be aggravated by inhalation of vapors.

CHRONIC EFFECTS OF OVEREXPOSURE:
 Repeated or prolonged inhalation exposure may produce reversible lung damage. Skin which is repeatedly defatted by contact with solvents may be more susceptible to irritation, infection, and dermatitis. None of the hazardous ingredients are listed as carcinogens by IARC, NTP, & OSHA
 EST'D PEL/TLV: Not established
 PRIMARY ROUTES OF ENTRY: Inh, Skin.
 HMIS CODES: HEALTH 2; FLAM 2; REACT 0; PERS. PROTECT B; CHRONIC HAZ NO
FIRST AID PROCEDURES:
 SKIN: Wash contaminated skin thoroughly with soap or a mild detergent. Apply a skin cream with lanolin. Get medical attention if irritation persists.
 EYES: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting upper and lower lids. Get medical attention at once.
 INHALE: Move exposed person to fresh air at once. If breathing has stopped, perform artificial respiration. Get medical attention immediately.
 INGEST: Aspiration hazard - do not induce vomiting. If vomiting occurs, keep head below hip level. Get emergency medical attention immediately.

SECTION IV - SPECIAL PRECAUTION INFORMATION

PROTECTIVE CLOTHING: If prolonged contact is expected or occurs, wear nitrile gloves or other gloves with proven resistance to the ingredients listed.

EYE PROTECTION: Use tight-fitting, splash-proof safety goggles. Contact lenses should not be worn when handling this material.

RESPIRATORY PROTECTION: When exposure levels exceed the PEL/TLV, use a self-contained or supplied air respirator.

VENTILATION: Provide local exhaust/ventilation as needed to keep concentration of vapors below exposure limits (PEL/TLV).

SECTION V - PHYSICAL DATA

BOILING POINT (F) - 355

VAPOR PRESSURE(mmHg) - N/D

VAPOR DENSITY(AIR-1) - N/D

SOLUBILITY IN WATER - NEGLIGIBLE

pH(USE DILUTION OF) - N/A

VOC CONTENT (CONCENTRATE) - 79.6% 5.53 lb/gl

APPEARANCE AND ODOR - A HAZY, AMBER LIQUID WITH A SLIGHT BANANA-LIKE ODOR.

SPECIFIC GRAVITY - 0.83

EVAPORATION RATE (WATER=1) - <1

pH(CONCENTRATE) - N/A

SECTION VI - FIRE AND EXPLOSION DATA

FLASH POINT(F) (METHOD USED): 110 TCC

FLAMMABLE LIMITS:LEL: N/A UEL: N/A

EXTINGUISHING MEDIA: Carbon dioxide, dry chemical and foam.

SPECIAL FIRE FIGHTING: Wear self-contained positive pres. breathing apparatus.

UNUSUAL FIRE HAZARDS: Concentrated vapor may ignite if exposed to spark.

SECTION VII - REACTIVITY DATA

STABILITY: Stable

INCOMPATIBILITY(AVOID): Heat, open flame, spark, and oxidizing agents.

POLYMERIZATION: Will not occur.

HAZARDOUS DECOMPOSITION: Carbon dioxide and carbon monoxide

SECTION VIII - SPILL AND DISPOSAL PROCEDURES

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

Immediately eliminate all flame, ignition and high-heat sources. Absorb spill on inert absorbent material. Pick up and place residue in a clean, D.O.T. specification container for disposal. Wash area thoroughly with a detergent solution and rinse well with water.

WASTE DISPOSAL METHOD:

Liquids cannot be sent to landfills unless solidified. Unusable product and collected, spent material may require disposal as a hazardous waste at a permitted treatment/storage/disposal facility. Solvent wastes may require treatment to meet the appropriate standards before disposal in a chemical or industrial waste landfill. Consult local, state, and federal agencies for proper disposal method in your area.

RCRA HAZ WASTE NOS: D001

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN WHEN HANDLING AND STORING

Combustible! Store and use away from heat, sparks, open flame, or any source of ignition. Keep product out of eyes. Keep out of the reach of children.

SECTION X - REGULATORY INFORMATION

DOT PROPER SHIPPING NAME: LUBRICANTS, METAL CUTTING, LIQUID, NOI

NOTE: DOT information applies to larger package sizes of affected products. For some products, DOT may require alternate names and labeling in accordance with packaging group requirements.

DOT HAZARD CLASS: NA DOT PACKING GROUP:

DOT I.D. NUMBER: DOT LABEL/PLACARD:

EPA TSCA CHEMICAL INVENTORY - ALL INGREDIENTS ARE LISTED

EPA CWA 40CFR PART 117 SUBSTANCE(RQ IN A SINGLE CONTAINER):

EPA CAA: N/A

MATERIAL SAFETY DATA SHEET

NOTICE

Thank you for your interest in, and use of, this product. Acuity Specialty Products Group is pleased to be of service to you by supplying this Material Safety Data Sheet for your files. Acuity Specialty Products Group is concerned for your health and safety. This product and all others supplied by Acuity Specialty Products Group companies can be used safely with proper protective equipment and proper handling practices consistent with label instructions and the MSDS. Before using any this product, be sure to read the complete label and the Material Safety Data Sheet.

As a further word of caution, Acuity Specialty Products Group wishes to advise that serious accidents have resulted from the misuse of "emptied" containers. "Empty" containers retain residue (liquid and/or vapor) and can be dangerous. DO NOT pressurize, cut, weld, braze, solder, drill, grind or expose such containers to heat, flame, sparks, or other sources of ignition; they may explode or develop harmful vapors and possibly cause injury or death. Clean empty containers by triple rinsing with water or an appropriate solvent. Empty containers must be sent to a drum reconditioner before reuse.

TERMS AND ABBREVIATIONS Listed Alphabetically by Section

SECTION II: HAZARDOUS INGREDIENTS

CAR: Carcinogen - A chemical listed by the National Toxicology Program (NTP), the International Agency for Research on Cancer (IARC) or OSHA as a definite or possible human cancer causing agent.

CAS#: Chemical Abstract Services Registry Number - A universally accepted numbering system for chemical substances.

CBL: Combustible - At temperatures between 100°F and 200°F chemical gives off enough vapor to ignite if a source of ignition is present as tested with a closed cup tester.

CNS: Central Nervous System depressant that reduces the activity of the brain and spinal cord.

COR: Corrosive - Causes irreversible injury to living tissue (e.g. burns).

DESIGNATIONS: Chemical and common names of hazardous ingredients.

EIR: Eye Irritant Only - Causes reversible reddening and/or inflammation of eye tissues.

EXPOSURE LIMITS: The time weighted average (TWA) airborne concentration at which most workers can be exposed without any expected adverse effects. Primary sources include ACGIH TLVs, and OSHA PELs.

ACGIH: American Conference of Governmental Industrial Hygienists

CEILING: "The concentration that should not be exceeded in the workplace during any part of the working exposure." Source, ACGIH

OSHA: Occupational Safety and Health Administration.

PEL: Permissible Exposure Limit - A set of time weighted average exposure values, established by OSHA, for a normal 8-hour day and a 40-hour work-week.

PPM: Parts per million - unit of measure for exposure limits.

(S) SKIN: Skin contact with substance can contribute to overall exposure.

STEL: Short Term Exposure Limit - Maximum concentration for a continuous 15-minute exposure period.

TLV: Threshold Limit Value - A set of time weighted average exposure limits, established by the ACGIH, for a normal 8-hour day and a 40-hour work-week.

FBL: Flammable - At temperatures under 100°F, chemical gives off enough vapors to ignite if a source of ignition is present as tested with a closed cup tester.

HAZARDOUS INGREDIENTS: Chemical substances that are determined to be potential health or physical hazards based on the criteria established in the OSHA Hazard Communication Standard - 29 CFR 1910.1200

HTX: Highly toxic - the probable lethal dose for a 70 kg (150 lb.) man, which may be approximated as less than 6 teaspoons (2 tablespoons)

IRR: Irritant - Causes reversible effects in living tissues (e.g. inflammation) - primarily skin and eyes.

N/A: Not Applicable - Category is not appropriate for this product.

N/D: Not Determined - Insufficient information to make a determination for this item.

RTECS#: Registry of Toxic Effects of Chemical Substances - an unreviewed listing of published toxicology data on chemical substances.

SARA: Superfund Amendment and Reauthorization Act - Section 313 designates certain chemicals for possible reporting for the Toxic Chemical Release Inventory.

SEN: Sensitizer - Causes allergic reaction after repeated exposure.

TOX: Toxic - The probable lethal dose for a 70 kg (150 kg) man is one ounce (2 tablespoons) or more.

SECTION III: HEALTH HAZARD DATA

ACUTE EFFECT: An adverse effect on the human body from a single exposure with symptoms developing almost immediately after exposure or within a relatively short time.

CHRONIC EFFECT: Adverse effects that are most likely to occur from repeated exposure over a long period of time.

EST'D PEL/TLV: This estimated, time-weighted-average, exposure limit, developed by using a formula provided by the ACGIH, pertains to airborne concentrations from the product as a whole. This value should serve as guide for providing safe workplace conditions to nearly all workers.

HMIS CODES: Hazardous Material Identification System - a rating system developed, by the National Paint and Coating Association for estimating the hazard potential of a chemical under normal workplace conditions. These risk estimates are indicated by a numerical rating given in each of three hazard areas (Health/ Flammability/Reactivity) ranging from a low of zero to a high of 4. The presence of a chronic hazard is indicated by a "YES". Consult HMIS training guides for Personal Protection letter codes, which indicate necessary protective equipment.

PRIMARY ROUTE OF ENTRY: The way one or more hazardous ingredients may enter the body and cause a generalized systemic or specific-organ toxic effect.

ING: Ingestion - A primary route of exposure through swallowing of material.

INH: Inhalation - A primary route of exposure through breathing of vapors.

SKIN: A primary route of exposure through contact with the skin.

SECTION IV: SPECIAL PROTECTION INFORMATION

Where respiratory protection is recommended, use only MSHA and NIOSH approved respirators and dust masks.

MSHA: Mine Safety and Health Administration

NIOSH: National Institute for Occupational Safety and Health.

SECTION V: PHYSICAL DATA

EVAPORATION RATE: Refers to the rate of change from the liquid state to the vapor state at ambient temperature and pressure in comparison to a given substance (e.g. water).

pH: A value representing the acidity or alkalinity of an aqueous solution (Highly Acidic pH = 1; Neutral pH = 7; Highly Alkaline pH = 14)

VOC CONTENT: The percentage or amount in pounds per gallon of the product that is regulated as a Volatile Organic Compound under the Clean Air Act of 1990 and various state jurisdictions.

SOLUBILITY IN WATER: A description of the ability of the product to dissolve in water.

SECTION VII: REACTIVITY DATA

HAZARDOUS DECOMPOSITION: Breakdown products expected to be produced upon product decomposition by extreme heat or fire.

INCOMPATIBILITY: Keep product away from listed substances or conditions to prevent hazardous reactions.

POLYMERIZATION: Indicates the tendency of the product's molecules to combine with themselves in a chemical reaction releasing excess pressure and heat.

STABILITY: Indicates the susceptibility of the product to decompose spontaneously and dangerously.

SECTION VIII: SPILL AND DISPOSAL PROCEDURES

RCRA WASTE NOS: RCRA (Resource Conservation and Recovery Act) waste codes (40 CFR 261) applicable to the disposal of spilled or unusable product from the original container.

SECTION X: TRANSPORTATION DATA

CWA: Clean Water Act - Federal law that regulates chemical releases to bodies of water.

RQ: Reportable Quantity - The amount of the specific ingredient that, when spilled to the ground and, can enter a storm sewer or natural watershed, must be reported to the National Response Center, and other regulatory agencies.

TSCA: Toxic Substances Control Act - A federal law requiring all commercial chemical substances to appear on an inventory maintained by the EPA.

DISCLAIMER

All statements, technical information, and recommendations contained herein are based on available scientific tests or data that we believe to be reliable. The accuracy and completeness of such data are not warranted or guaranteed. We cannot anticipate all conditions under which this information and our products, or the products of other manufacturers in combination with our products, may be used. Acuity Specialty Products Group assumes no liability or responsibility for loss or damage resulting from the improper use or handling of our products, from incompatible product combinations, or from the failure to follow instructions, warnings, and advisories in the product label and Material Safety Data Sheet

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