

CENTRAL PETROLEUM COMPANY
1449 W. 117 St.
Cleveland, Ohio 44107-5101
319-284-6221

MATERIAL SAFETY DATA SHEET

PRODUCT TRADE NAME: Cen-Pe-Co Atomic Powered

CAS NO: Not applicable for mixtures.

Synonyms: None.

Generic/Chemical Name: Mixture.

Product type: Diesel fuel additive.

Preparation/Revision Date: 3/22/95

NFPA CODE: HEALTH: 2 FIRE: 2 REACTIVITY: 0

HMIS CODE: HEALTH: 2 FIRE: 2 REACTIVITY: 0

PRINCIPAL HAZARDS: WARNING

- CAUSES IRRITATION TO THE EYES.
- HARMFUL IF INHALED.
- CAUSES SKIN IRRITATION.
- CAUSES RESPIRATORY TRACT IRRITATION.
- HARMFUL IF ABSORBED THROUGH SKIN.
- COMBUSTIBLE LIQUID.
- MAY CAUSE ALLERGIC SKIN REACTION.
- CONTAINS COMPONENTS WHICH MAY CAUSE CANCER.
- MAY CAUSE CHRONIC HEALTH EFFECTS.

SECTION 1 - HAZARDOUS INGREDIENTS

- Petroleum distillate, CAS no: 68477-31-6;
- Light aromatic petroleum naphtha, CAS no: 64742-95-6;
Recommended exposure limit; TWA: 100.00 ppm;
- Trimethylbenzene (mixed isomers), CAS no: 25551-13-7; OSHA PEL:
25.00 ppm; ACGIH TLV-TWA: 123.00 mg/ cu M., 25.00 ppm;
- 2-Ethylhexanol, CAS no: 104-76-7;
- 1,2,4-Trimethylbenzene, CAS no: 95-63-6; ACGIH TLV-TWA: 123.00
mg/ cu M., 25.00 ppm;
- Naphthalene, CAS no: 91-20-3; OSHA PEL: 10.00 ppm; OSHA STEL:
15.00 ppm; ACGIH TLV-TWA: 52.00 mg/ cu M., 10.00 ppm; ACGIH
TLV STEL: 79.00 mg/ cu M., 15.00 ppm;
- 1,3,5-Trimethylbenzene, CAS no: 108-67-8;
- Xylene, CAS no: 1330-20-7; OSHA PEL: 435.00 mg/ cu M., 100.00
ppm; OSHA STEL: 655.00 mg/ cu M., 150.00 ppm; ACGIH TLV-TWA:
434.00 mg/ cu M., 100.00 ppm; ACGIH TLV STEL: 651.00 mg/ cu
M., 150.00 ppm;
- Cumene, CAS no: 98-82-8; ACGIH TLV-TWA: 246.00 mg/ cu M., 50.00
ppm (skin);
- Alkylphenol/formaldehyde resin;
- Ethylbenzene, CAS no: 100-41-4; OSHA PEL: 100.00 ppm; OSHA STEL:
125.00 ppm; ACGIH TLV-TWA: 435.00 mg/ cu M., 100.00 ppm;
ACGIH TLV STEL: 543.00 mg/ cu M., 125.00 ppm;
- Hydroxyethylated aminoethylamide;
- Alkenyl carboxylic acid;
- Aliphatic Hydrocarbon, CAS no: 67-63-0; OSHA PEL: TWA 400 ppm;

SECTION 1 - HAZARDOUS INGREDIENTS (Continued)

STEL 500 ppm; ACGIH OEL: TWA 400 ppm, STEL 500 ppm;
-Petroleum Hydrocarbon; OSHA PEL 5 ppm (mist), ACGIH TLV 5 ppm
(mist).

SECTION 2 - FIRST AID MEASURES

ORAL: DO NOT INDUCE VOMITING. If conscious, give 2 glasses of water. Get immediate medical attention.

EYE: Flush immediately with water for at least 15 minutes. Get immediate medical attention.

SKIN: Wash immediately with soap and water. Immediately remove contaminated clothing. Get medical attention if irritation persists. Launder contaminated clothing before reuse and discard shoes and other leather articles saturated with the material.

INHALATION: Remove exposed person to fresh air if adverse effects are observed and call a physician immediately. If breathing is labored, administer oxygen. If breathing has stopped, apply artificial respiration. If irritation persists or if toxic symptoms are observed, get medical attention.

ADDITIONAL: Note to physician: Treat symptomatically.

SECTION 3 - FIRE FIGHTING MEASURES

FLASH POINT (Typical): 43 degrees C., 110 degrees F. (ASTM D-93).

UPPER FLAMMABLE LIMIT: Not Determined.

LOWER FLAMMABLE LIMIT: Not Determined.

EXTINGUISHING MEDIA: CO₂, dry chemical, or foam. Water can be used to cool and protect exposed material.

SPECIAL FIREFIGHTING PROCEDURES: Recommend wearing self-contained breathing apparatus. Water may cause splattering. Material will float on water.

UNUSUAL FIRE & EXPLOSION HAZARDS: Toxic fumes, gases or vapors may evolve on burning. Vapors may be heavier than air and may travel along the ground to a distant ignition source and flash back. Container may rupture on heating.

AUTOIGNITION TEMPERATURE: Not Determined.

EXPLOSION DATA: Material does not have explosive properties.

SECTION 4 - ACCIDENTAL RELEASE MEASURES

SPILL PROCEDURES: Evacuate all non-essential personnel. Personal Protective Equipment must be worn, see Personal Protection Section for PPE recommendations. Remove sources of ignition. Ventilate spill area. Prevent entry into sewers and waterways. Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed on inert material. Check under Transportation and Labeling (DOT/CERCLA) and Other Regulatory Information Section (SARA) for hazardous substances to determine regulatory reporting requirements for spills.

HANDLING AND STORAGE

HANDLING PROCEDURES: Keep away from potential sources of ignition. Open container in a well ventilated area. Avoid breathing vapors. Keep containers closed when not in use. Wash thoroughly after handling. Empty containers retain material residue. Do not cut, weld, braze, solder, drill, grind, or expose containers to heat, flame, spark, or other sources of ignition.

STORAGE PROCEDURES: Do not store near potential sources of ignition. Store in well ventilated area

SECTION 5 - EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION PROCEDURES: Use local exhaust ventilation to control mists or vapors. Additional ventilation or exhaust may be required to maintain air concentrations below recommended exposure limits.

GLOVES PROTECTION: Viton. Nitrile.

EYE PROTECTION: Faceshield.

RESPIRATORY PROTECTION: Use NIOSH/MSHA approved full face respirator with an organic vapor cartridge if the recommended exposure limit is exceeded. Use self-contained breathing apparatus for entry into confined space, for other poorly ventilated areas and for large spill clean-up sites.

CLOTHING RECOMMENDATION: Long sleeve shirt is recommended. Wear either a chemical protective suit or apron when potential for contact with material exists. Use neoprene or nitrile rubber boots when necessary to

SECTION 5 - EXPOSURE CONTROLS/PERSONAL PROTECTION (Continued)

avoid contaminating shoes. Do not wear rings, watches, or similar apparel that could entrap the material and cause a skin reaction.

SECTION 6 - PHYSICAL AND CHEMICAL PROPERTIES

VAPOR PRESSURE: Not Determined.
PH: Not Determined.
SPECIFIC GRAVITY: .90
WATER SOLUBILITY: Insoluble.
PERCENT VOLATILE: 43%
VAPOR DENSITY: Not Determined.
EVAPORATION RATE: Not Determined.
ODOR: Moderate.
APPEARANCE: Amber colored liquid.
ODOR THRESHOLD: Unknown.
BOILING POINT: Not Determined.
FREEZING POINT: Not Determined.
MOLECULAR WEIGHT: Not Determined.

SECTION 7 - STABILITY AND REACTIVITY

STABILITY: Material is normally stable at moderately elevated temperatures and pressures.
INCOMPATIBILITY: Oxidizing agents. Halogens and halogenated compounds.
POLYMERIZATION: Will not occur.
THERMAL DECOMPOSITION: Smoke, carbon monoxide, aldehydes, ketones, other products of incomplete combustion, and nitrogen oxides.

SECTION 8 - TOXICOLOGICAL INFORMATION

- ACUTE EXPOSURE -

ORAL TOXICITY: Swallowing material may cause irritation of the gastrointestinal lining, nausea, vomiting, diarrhea, and abdominal pain. Ingestion may cause CNS depression. Material aspirated into the lungs during ingestion or vomiting may cause mild to severe pulmonary injury and possibly death.

EYE IRRITATION: Will cause eye irritation.

SKIN IRRITATION: Skin irritant. Prolonged or repeated skin contact as from clothing wet with material may cause dermatitis. Symptoms may include redness, edema, drying,

SECTION 8 - TOXICOLOGICAL INFORMATION (Continued)

DERMAL TOXICITY: defatting, and cracking of the skin. Skin absorption of components of this material may cause systemic effects; note toxicity from other sections.

INHALATION TOXICITY: High concentrations may cause headaches, dizziness, nausea, stupor, and other central nervous system effects leading to visual impairment, difficulty breathing, convulsions, and possibly death.

RESPIRATORY IRRITATION: Nose, throat, and lung irritant. Exposure to a high concentration of vapor or mist is irritating to the respiratory tract. Breathing of vapor or mist may aggravate asthma and inflammatory or fibrotic pulmonary disease. Residual vinyl acetate monomer may cause respiratory irritation.

DERMAL SENSITIZATION: May cause skin sensitization.

INHALATION SENSITIZATION: No data available to indicate product or components may be respiratory sensitizers.

- CHRONIC EXPOSURE -

CHRONIC TOXICITY: Xylene has been found to cause cardiac, liver, and kidney effects in laboratory animals. Prolonged and repeated inhalation of hydrocarbon solvents such as xylene can cause chronic neurological disturbances. Prolonged or repeated overexposure to petroleum naphtha may cause liver and kidney damage. A 14-day dermal toxicity study of 2-ethylhexanol in rats showed blood effects, decreased spleen weight and decreased triglycerides. Repeated overexposure to naphthalene may cause destruction of red blood cells with anemia, fever, jaundice, and kidney and liver damage. Repeated ingestion of 2-ethylhexanol may cause injury to the liver and kidneys.

CARCINOGENICITY: Lifetime skin painting studies with products similar to kerosene usually produce skin tumors and a skin cancer in laboratory mice. The degree of carcinogenic response was weak to moderate with a relatively long latent period. Limited studies on carcinogenic oils have shown that washing the

SECTION 8 - TOXICOLOGICAL INFORMATION (Continued)

animal's skin with soap and water between applications greatly reduces tumor formation. In an unpublished NTP study, mice exposed to 10 and 30 ppm naphthalene for two years demonstrated an increased incidence of lung tumors.

MUTAGENICITY: Results of vinyl acetate mutagenicity tests are ambiguous; in-vitro evidence is suggestive of mutagenicity and in-vivo are not.

REPRODUCTIVE TOXICITY: No data available to indicate either product or components present at greater than 0.1% that may cause reproductive toxicity.

TERATOGENICITY: No evidence of adverse effects were found in a developmental toxicity study of 2-ethylhexanol in rats. Doses up to 3 ml/kg applied to the skin during the most critical part of the gestation period produced evidence of toxicity to mothers, but no evidence of injury in the developing offspring. In a previous study, birth defects were observed by oral administration, an unlikely route of exposure in the workplace.

-ADDITIONAL INFORMATION -

OTHER: No other health hazards known.

EXPOSURE LIMITS: See Hazardous Ingredients Section for any applicable exposure limits for components.

SECTION 9 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Material, if discarded, is not expected to be a characteristic hazardous waste under RCRA. Waste management should be in compliance with federal, state, and local laws.

SECTION 10 - TRANSPORT INFORMATION

U.S. DOT BULK SHIPPING DESCRIPTION: Combustible liquid, n.o.s. (Contains Xylene, Light aromatic petroleum naphtha, isopropyl, Naphthalene), NA1993, PG III, RQ.

SECTION 11 - REGULATORY INFORMATION

U.S. TSCA INVENTORY: All components of this material are on the US TSCA Inventory.

OTHER TSCA REG.: Section 4a (Benzene, 1,2,4-trimethyl-).
Section 4a (Benzene, 1,3,5-trimethyl-).
Section 4a (Cumene).
Section 4a (C9 Aromatic Hydrocarbons).
Section 4a (Ethyl-1-hexanol).
Section 4a (Isopropyl alcohol).
Section 4a (Cresol).
Section 4a (Phenol).
Section 4a (2,6-Dimethylphenol).
May be subject to export notification under TSCA Section 12 (b).

SARA EXT. HAZ. SUBST.: This product does not contain greater than 1.0% of any chemical substance on the SARA Extremely Hazardous Substances list.

SARA SECTION 313: 16.7% Xylene, CAS no.: 1330-20-7 1.3%
Naphthalene, CAS no.: 91-20-3 3.8%
Ethylbenzene, CAS no.: 100-41-4.

CERCLA HAZARDOUS SUBSTANCES: Product RQ 755 gal. due to Xylene.
Product RQ 979 gal. due to Naphthalene.
Product RQ 3631 gal. due to Ethylbenzene.

This information has been compiled from sources considered to be dependable and is accurate to the best of Central Petroleum Company's knowledge; however, the Central Petroleum Company makes no warranty whatsoever, expressed or implied, of MERCHANTABILITY OR FITNESS FOR THE PARTICULAR PURPOSE regarding the accuracy of such data or the results to be obtained from its use. The Central Petroleum Company assumes no responsibility for injury to recipient or to third persons or for any damage to any property and recipient assumes all such risks.

CENTRAL PETROLEUM COMPANY
11740 Clifton Blvd
Cleveland, OH 44107-0597
563-284-6221
MATERIAL SAFETY DATA SHEET

PRODUCT TRADE NAME: **CEN-PE-CO S-3 OIL**

Product Type: Engine Oil
CAS NO: Not applicable for mixtures.
Synonyms: Motor Oil
Generic/Chemical Name: Mixture
Preparation/Revision Date: 1/22/96

HMIS CODE: HEALTH: 0 FIRE: 1 REACTIVITY: 0
NFPA CODE: HEALTH: 0 FIRE: 1 REACTIVITY: 0

1.—COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS: 80 to 86% severely solvent refined paraffinic petroleum oils, CAS nos.: 64741-88-4, 64741-89-5, 64742-01-4, 64742-54-7.
OSHA PEL: 5 mg/cu M.; ACGIH TLV-TWA: 5 mg/cu M.
<0.2 percent Diphenylamine, CAS NO. 122-39-4;
OSHA PEL: 10.00 mg/cuM.; ACGIH TLV-TWA: 10.00 mg/cuM.

2.—HAZARDS IDENTIFICATION

PRINCIPAL HAZARDS: This material has no known hazards.
See Section 10 for complete health hazard information.

3.—FIRST AID MEASURES

ORAL: DO NOT INDUCE VOMITING. If conscious, give 2 glasses of water. Get immediate medical attention.
EYE: Flush with water for at least 15 minutes. Get medical attention if irritation develops or persists.
SKIN: Wash with soap and water. Remove contaminated clothing. Get medical attention if irritation develops. Launder contaminated clothing before reuse and discard shoes and other leather articles saturated with the material.
INHALATION: Remove exposed person to fresh air if adverse effects are observed.
ADDITIONAL: Note to physician: Treat symptomatically.

SECTION 4 - FIRE FIGHTING MEASURES

FLASH POINT (Typical): 370 to 505 degrees F. depending on viscosity.
UPPER FLAMMABLE LIMIT: Not Determined.
LOWER FLAMMABLE LIMIT: Not Determined.
EXTINGUISHING MEDIA: CO2, Dry Chemical, or foam. Water can be used to cool and protect exposed material.
SPECIAL FIRE FIGHTING PROCEDURES: Recommend wearing self-contained breathing apparatus. Water may cause splattering. Material will float on water.
UNUSUAL FIRE & EXPLOSION HAZARDS: Toxic fumes, gases or vapors may evolve on burning.
AUTOIGNITION TEMPERATURE: Not Determined.

SECTION 5 - ACCIDENTAL RELEASE MEASURES

SPILL PROCEDURES: Personal protective equipment must be worn, see Personal Protection Section for PPE recommendations. Ventilate area if spilled in confined space or other poorly ventilated areas. Prevent entry into sewers and waterways. Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed on inert material. Check under Transportation and Labeling (DOT/CERCLA) and Other Regulatory Information Section (SARA) for hazardous substances to determine regulatory reporting requirements for spills.

SECTION 6 - HANDLING AND STORAGE

HANDLING PROCEDURES: Keep containers closed when not in use. Wash thoroughly after handling. Empty container contains product residue, which may exhibit hazards of product.
STORAGE PROCEDURES: Store in cool, dry place with adequate ventilation. Keep away from open flames and high temperatures.

SECTION 7 - EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION PROCEDURES: Use with adequate ventilation.
GLOVES PROTECTION: Nitrile.
EYE PROTECTION: Splash proof chemical goggles.
RESPIRATORY PROTECTION: Under normal use conditions, respirator is not usually required unless heated or misted. Use NIOSH/MSHA approved disposable dust/mist mask if the recommended exposure limit is exceeded.
CLOTHING RECOMMENDATION: Long sleeve shirt is recommended. Use chemically protective boots when necessary to avoid contaminating shoes. Do not wear rings, watches or similar apparel that could entrap the material and cause a skin reaction.

SECTION - 8 PHYSICAL AND CHEMICAL PROPERTIES

VAPOR PRESSURE:	Not Determined.
PH:	Not Determined.
SPECIFIC GRAVITY:	0.87 to 0.89 depending on SAE grade
WATER SOLUBILITY:	Insoluble.
PERCENT VOLATILE:	Unknown.
VAPOR DENSITY:	Not Determined.
EVAPORATION RATE:	Not Determined.
ODOR:	Mild.
APPEARANCE:	Amber Colored Liquid.
VISCOSITY:	43 to 266 cSt at 40 Deg. C., depending on SAE grade. 5.5 to 21.4 cSt at 100 Deg. C. depending on SAE grade.
ODOR THRESHOLD:	Unknown.
BOILING POINT:	High with a wide range.
FREEZING POINT:	Not Determined.
MOLECULAR WEIGHT:	Not Determined.

SECTION 9 - STABILITY AND REACTIVITY

STABILITY:	Material is normally stable at moderately elevated temperatures and pressures.
INCOMPATIBILITY:	Heat. Open flames. Acids. Oxidizing agents. Halogens and halogenated compounds.
POLYMERIZATION:	Will not occur.
THERMAL DECOMPOSITION:	Smoke, carbon monoxide, aldehydes, and other products of incomplete combustion. Hydrogen sulfide and alkyl mercaptans and sulfides may also be released. Under combustion conditions, oxide following elements will be formed: Calcium, Sulfur.

SECTION 10 - TOXICOLOGICAL INFORMATION

ORAL TOXICITY:	The LD50 in rats is > 5000 mg/kg. Based on data from components or similar materials.
EYE IRRITATION:	Not expected to cause eye irritation. Based on data from components or similar materials.
SKIN IRRITATION:	Not expected to be a primary skin irritant. Based on data from components or similar materials. Prolonged or repeated-skin contact as from clothing wet with material may cause dermatitis, oil acne, or folliculitis. Symptoms may include redness, edema, drying, defatting, and cracking of the skin.

SECTION 10 - TOXICOLOGICAL INFORMATION-Continued

- DERMAL TOXICITY: The LD50 in rabbits > 2000 mg/Kg. Based on data from components or similar materials.
- INHALATION TOXICITY: No data available to indicate product or components may be a toxic inhalation hazard.
- RESPIRATORY IRRITATION: If material is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract similar to that observed with mineral oil. Based on data from components or similar materials. Under good industrial hygiene practices where all exposure limits are observed, respiratory irritation should not be a problem.
- DERMAL SENSITIZATION: No data available to indicate product or components may be a skin sensitizer.
- INHALATION SENSITIZATION: No data available to indicate product or components may be respiratory sensitizers.

-- CHRONIC EXPOSURE --

- CHRONIC TOXICITY: No data available to indicate product or components present at greater than 1% are chronic health hazards.
- CARCINOGENICITY: No data available to indicate any components present at greater than 0.1% may present a carcinogenic hazard.
- MUTAGENICITY: No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
- REPRODUCTIVE TOXICITY: No data available to indicate either product or components present at greater than 0.1% that may cause reproductive toxicity.
- TERATOGENICITY: Diphenylamine is reported to be teratogenic in rats when administered through food or by gavage seven days prior to delivery.

-- ADDITIONAL INFORMATION --

- OTHER: No other health hazards known.
- EXPOSURE LIMITS: Contains mineral oil. Under conditions which may generate mists, observe the OSHA PEL of 5 mg per cubic meter, ACGIH STEL of 10 mg per cubic meter.

SECTION 11 - DISPOSAL CONSIDERATIONS

- WASTE DISPOSAL: Material, if uncontaminated, is not expected to be a characteristic hazardous waste under RCRA. Waste management should be in compliance with federal, state, and local laws.

SECTION 12 - TRANSPORT INFORMATION

U. S. DOT BULK SHIPPING DESCRIPTION: N.O.I. Oil, lubricating, N.O.I.

U. S. DOT NON-BULK SHIPPING DESCRIPTION: N.O.I. Oil, lubricating,
N.O.I.

13.—REGULATORY INFORMATION

U.S. TSCA INVENTORY: All components of this material are on the US TSCA inventory.

OTHER TSCA REG.: Section 4a (Benzene, 1,2,4-trimethyl-).
Section 4a (Isobutyl alcohol).

SARA EXT. HAZ. SUBST.: This product does not contain greater than 1.0% of any chemical substance on the SARA Extremely Hazardous Substances list.

SARA SECTION 313: From 0.7 TO 1.5%, Zinc Compounds; contains 0.1% as Zn.

This information has been compiled from sources considered to be dependable and is accurate to the best of Central Petroleum Company's knowledge; however, the Central Petroleum Company makes no warranty whatsoever, expressed or implied, of merchantability or fitness for the particular purpose regarding the accuracy of such data or the results to be obtained from the use thereof. The Central Petroleum Company assumes no responsibility for injury to recipient or to third persons or for any damage to any property and recipient assumes all such risks.

MATERIAL SAFETY DATA SHEET

(Approved by U. S. Department of Labor "Essentially Similar" to Form OSHA-20)

Manufacturer's Name Central Petroleum Company
 Address (number, street) 201 E Lincoln
 (City, state, zip code) Walcott IA 52773
 Emergency Telephone Number: 319-284-6221
 Information Supplied by: Blaine Ballentine
 Date: 1/92 Title: Products Manager

Product Trade Name Cen-Pe-Co Gas O Klenz
 Chemical Name & Synonyms Gasoline Additive
Petroleum
 Chemical Family Hydrocarbon Formula _____
 National Fire Protection Association 704M Signal (or estimate)
 Health 1 Fire 2 Reactivity 0 Specific Hazard _____

HAZARDOUS INGREDIENTS

MATERIAL	%	TLV (Units)	MATERIAL	%	TLV (Units)
Aliphatic Hydrocarbon	10	100 PPM			

PHYSICAL DATA

a. Boiling point (°F) 300 c. Vapor density (Air = 1) NA
 b. Vapor pressure (mm Hg) 3.1 d. Solubility in water (%) nil g. Evaporation rate (____ = 1) NA
 e. Specific gravity (4/20 = 1) 0.88 h. Appearance & odor: Amber Liquid
 i. Per cent volatile by volume 10% petroleum odor

FIRE AND EXPLOSION HAZARD DATA

a. Flash point (state method, °F) 150° COC d. Extinguishing media: Water Fog, Foam
CO₂, Dry Chemical
 b. Ignition temperature (°F) NA e. Special fire fighting procedures: Wear self-contained breathing
apparatus in confined spaces
 c. Flammable limits in air, LEL NA UEL NA f. Unusual fire and explosion hazards: Dense smoke. Material
will float on water.

HEALTH HAZARD DATA

a. Physiological Properties:
 1. Acute oral toxicity (LD₅₀ if available): May cause digestive tract irritation. May cause CNS depression
(dizziness, drowsiness, loss of coordination.)
 2. Local effects to eyes: May cause irritation, burning, tearing and redness
 3. Local effects to skin: May cause irritation. Prolonged or repeated contact may cause redness, drying,
cracking and dermatitis.
 4. Sensitizing effects: NA
 5. Dermal absorption (LD₅₀ if available): NA
 6. Inhalation effects (LC₅₀ if available): High concentrations may cause CNS depression (dizziness, drowsiness,
loss of coordination, breathing difficulties) and respiratory tract
irritation
 7. Threshold Limit Value (or estimate): 100PPM

b. Emergency and First Aid Procedures:

Do not induce vomiting. Aspiration into lungs may cause lung damage.

1. Ingestion: Seek Medical attention immediately.
Flush with water for at least 15 minutes. Seek medical attention if irritation persists or develops.
2. Eye Contact: Wash affected area with soap and water. Remove and launder contaminated clothing.
3. Skin Contact: Seek medical attention if irritation persists or develops.
Remove to fresh air. Seek medical attention if irritation persists. Administer oxygen if breathing is labored. Apply artificial respiration if breathing has stopped.
4. Inhalation: Remove to fresh air. Seek medical attention if irritation persists. Administer oxygen if breathing is labored. Apply artificial respiration if breathing has stopped.

Other Health Data: Note to physician: treat Symptomatically

I. REACTIVITY DATA

- a. Stability: Stable Unstable _____ Conditions to avoid: Extreme heat.
- b. Incompatible Materials: Oxidizing agents, strong acids or bases, and selected amines
- c. Hazardous Decomposition Products: CO, CO₂, smoke, aldehydes and other products of incomplete combustion
- d. Hazardous Polymerization: May occur _____ Will not occur Conditions to avoid: _____

- SPILL OR LEAK PROCEDURES Keep public away. Shut off source and eliminate sources of ignition. Vapors can be harmful; don't breath vapors. Ventilate area. Transfer bulk of material into another container. Absorb remaining residue with proper absorbents such as sand, earth, vermiculite. Sweep up and dispose. Prevent entry into sewers & waterways.
- a. Steps to be taken for spill or leak: entry into sewers & waterways.
 - b. Waste disposal methods: Dispose by methods consistent with local, state and federal regulations.

SPECIAL PROTECTION INFORMATION

- a. Respiratory protection (Specify type) requirements: Use NIOSH/MSHA approved respiratory protection devices in enclosed areas.
Local exhaust recommended; mechanical ventilation
- b. Ventilation requirements (local exhaust, general dilution, special): for confined spaces.
- c. Protective gloves required: Chemical resistant such as Neoprene or plastic
- d. Eye protection required: Safety goggles
- e. Other required equipment: As needed to prevent repeated or prolonged contact.

SPECIAL PRECAUTIONS

- a. Precautionary label required? If yes, please attach. NA
- b. Precautions to be taken in handling and storing: Storage per NFPA Class 111B
- c. Other precautions: KEEP OUT OF REACH OF CHILDREN!