

MATERIAL SAFETY DATA SHEET

SECTION I. PRODUCT IDENTIFICATION & EMERGENCY INFORMATION

PRODUCT NAME: **UNIAROM® SX 165 DA**
 CHEMICAL FAMILY: Petroleum Hydrocarbons CAS#: 64742-94-5
 CARCINOGENICITY: NTP: No IARC: No OSHA: No
 This material contains <0.01% Benzene (CAS71432).

EMERGENCY TELEPHONE NUMBERS: UniSource Energy, Inc. CHEMTREC
 1-800-444-5510 1-800-424-9300

SECTION II. HAZARDOUS COMPONENTS OF MIXTURES

COMPONENTS:

CAS Number	Material or Component	% By Weight
64742-94-5	HEAVY AROMATIC PETROLEUM NAPHTHA	84%-94%
91-20-3	NAPHTHALENE	14% max.

TLV/TWA = 500 ppm, tlv/stel = N/A ppm, PEL/TWA = N/A ppm
 TLV/TWA = 10 ppm, tlv/stel = 15 ppm, PEL/TWA = 50 mg./m³

SECTION III. HEALTH INFORMATION

FIRST AID AND NATURE OF HAZARD:

EYE CONTACT: Flush eyes with large amounts of water for 15 minutes while holding eyelids open. Seek medical help attention.

SKIN CONTACT: Flush with water while removing contaminated clothing and shoes. Wash exposed portions of the skin with soap and water. Do not reuse clothing or shoes until cleaned. If irritation persists, seek medical attention. May cause sensation, redness, edema, dermatitis, folliculitis or oil acne. Prolonged or repeated skin contact may result in absorption of potentially harmful amounts of material.

INHALATION: Remove person to fresh air immediately. Keep person warm and quiet. If breathing has stopped, apply artificial respiration and administer oxygen if necessary. Seek medical attention.

INGESTION: Do not induce vomiting. Give 2-4 ounces of vegetable oil to drink, plus 1-2 ounces activated charcoal. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid in lungs. Seek medical attention immediately.

AGGRAVATED MEDICAL CONDITIONS: Pre-existing skin and respiratory disorders may be aggravated by exposure to this product.

OCCUPATIONAL EXPOSURE LIMIT: See Section II.

ACUTE TOXICITY DATA:

Acute Oral LD50 | Acute Dermal LD50 | Acute Inhalation LC50
N/A G/Kg, Rat | N/A G/Kg., Rabbit | N/A

EFFECTS OF CHRONIC OVEREXPOSURE: Overexposure to this material (or its components) has been found to cause the following effects in laboratory animals:

Results of a 5-day dermal toxicity study in rats show that repeated dermal application of Light Pyrolysis Gasoline causes severe skin irritation with the possibility of skin damage.

SECTION IV. PERSONAL PROTECTION**PROTECTIVE EQUIPMENT (TYPE):**

EYES: Wear chemical goggles to prevent contact.

SKIN: Wear impervious gloves, protective clothing, and boots as required to prevent skin contact.

INHALATION: If product is handled in such a way as to create a vapor or mist or if there is the possibility of excessive contact with headspace above the drum or tank wagon, a MSHA/NIOSH approved respirator should be used to prevent overexposure. In accord with 29 CFR 1910.134, use either a full-face, atmosphere-supplying respirator or an air-purifying respirator for organic vapors and particulates. Engineering or administrative controls should be implemented to reduce exposure.

VENTILATION: Adequate ventilation in accordance with good engineering practices must be provided. Also, adequate ventilation is important when drums or tank wagon are being opened.

SECTION V. FIRE PROTECTION

FLASH POINT: >150° F (PMCC) Flammable limits (%Vol.) LEL: 1.9 UEL: 6.8

EXTINGUISHING MEDIA: Water spray, foam, dry chemicals, CO₂. Water may be ineffective in fighting an oil fire unless used by experienced fire fighters.

SPECIAL FIRE FIGHTING PROCEDURES: Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coats, gloves and rubber boots), including a positive-pressure NIOSH approved self-contained breathing apparatus. Use water only to cool fire exposed containers.

UNUSUAL FIRE AND EXPLOSIVE HAZARDS: Never use welding or cutting torch on or near drum (even empty) because product (even just residue) or heat from the torch will form vapor that can ignite explosively.

NFPA FIRE HAZARD CLASS: HEALTH 2 FIRE 2 REACTIVITY 1 SPECIAL B

CAS # - Service registry # which identifies the product or ingredients

NTP - National Toxicology Program

IARC - International Agency for Research on Cancer

OSHA - Occupational Safety and Health Administration

ACGIH - American Conference of Governmental Industrial Hygienists

TLV - ACGIH threshold limit value, current

TWA - Time weighted average concentration for 8-hour workday exposure

STEL - ACGIH short-term exposure limit (15 minute weighted avg.)

N/A - Not available or relevant information found

NA - Not available

NFPA - National fire Protection Association

SECTION VI. ENVIRONMENTAL PROTECTION

WASTE DISPOSAL METHOD: Under RCRA, it is the responsibility of the user of products to determine, at the time of disposal, whether product meets RCRA criteria for hazardous waste. This is because product uses, transformations, mixture, processes, etc. may render the resulting material hazardous.

ENVIRONMENTAL HAZARD: This product may be classified as an oil under section 311 of the clear water act. Spill entering (A) surface waters or (B) any watercourses or sewers entering/leading to surface waters that cause a sheen must be reported to the National Response Center at 1-800-424-8802.

SECTION VI. ENVIRONMENTAL PROTECTION (continued)

PROCEDURES IN CASE OF LEAKAGE: May burn although not readily ignitable. Use cautious judgment when cleaning up large spills. Provide adequate ventilation during clean-up. Prevent run-off to sewers, streams, or other bodies of water. If run-off occurs, notify proper authorities as required, that a spill has occurred. Persons not wearing protective equipment should be excluded from area of spill until clean-up is completed.

LARGE SPILLS: Wear respirators and protective clothing as appropriate. Shut off source of leak if safe to do so. Dike and contain. Remove with vacuum trucks or pump to storage/salvage vessels. Soak up residue with an absorbent such as clay, sand, or other suitable materials; dispose of properly. Flush area with water to remove trace residue.

SMALL SPILLS: Take up with an absorbent material and dispose of properly.

PROTECTION MEASURES FOR REPAIR/MAINTENANCE OF CONTAMINATED EQUIPMENT: Clean thoroughly as appropriate to specific equipment. For example, storage tanks should be thoroughly drained, cleaned with an industrial detergent, followed by complete rinsing with water. Check for flammable with an "explosion meter" and also check the oxygen level with an oxygen meter. In all cases, follow good industrial safety practices before entering equipment.

SECTION VII. PHYSICAL DATA

Specific Gravity:	<u>0.95-0.98 (@ 60°F)</u>
Vapor Pressure:	<u>< 1.0 mmHg @ 100°F</u>
Boiling Range:	<u>400 - 580°F</u>
Vapor Density:	<u>4.9 (Air = 1)</u>
Solubility in Water:	<u>Negligible</u>
Viscosity:	<u>2 cSt @ 100°F</u>
% Volatile by Volume:	<u>100</u>
Pour Point:	<u><-30°F</u>
Evaporation Rate:	<u><1.0 (Butyl Acetate = 1)</u>
Appearance:	<u>Dark brown/green liquid with aromatic hydrocarbon odor.</u>

SECTION VIII. REACTIVITY DATA

STABILITY: Stable.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS AND MATERIALS TO AVOID: High temperature and open flame.

THERMAL DECOMPOSITION PRODUCTS: Thermal decomposition products are highly dependant on the combustion conditions.

SECTION IX. HAZARD CLASSIFICATION

U. S. DOT: Petroleum Distillates, NOS

HAZARD CLASS: Combustible Liquid, UN 1268

PACKING GROUP: PG III

SECTION X. SPECIAL PRECAUTIONS

CAUTION! Misuse of empty containers can be hazardous. Empty containers can be hazardous if used to store toxic, flammable, or reactive materials. Cutting or welding of empty containers might cause fire, explosion or toxic fumes from residues. Do not pressurize or expose to open flames or heat. Keep container closed and drum bungs in place. This product does not carry a cancer hazard warning under OSHA Hazard

Communication Standard (29 CFR 1900.1200). General health studies have shown that the effect of many petroleum hydrocarbons vary from person to person. As a precaution, minimize any exposure to vapors, liquid or mist.

Minimum feasible handling temperatures should be maintained. Periods of exposure to high temperatures should be minimized.

Minimize skin contact. Wash with soap and water before eating, drinking, or smoking or using toilet facilities. Launder contaminated clothing before reuse. Properly dispose of contaminated leather articles, including shoes, that cannot be decontaminated.

REGULATORY INFORMATION

RIGHT-TO-KNOW PROGRAM: This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and 40CFR 372:

CAS No.	MATERIAL or COMPONENT	% BY WEIGHT
64742-94-5	HEAVY AROMATIC PETROLEUM NAPHTHA	84%-94%
91-20-3	NAPHTHALENE	14% MAX.

OSHA HAZARD COMMUNICATION STANDARD 29 CFR 1910.1200

Based on our evaluation, the following components in this product are hazardous and the reasons are listed.

HEAVY AROMATIC NAPHTHA - Combustible, skin irritant. NAPHTHALENE - eye irritant.
 NAPHTHALENE - TWA 10 PPM, STEL 15 PPM, ACGIH/TLV (52 mg./m³ TWA, 79 mg./m³ STEL).
 NAPHTHALENE = TWA 10 PPM, STEL 15 PPM, OSHA/PEL (50 mg./m³ TWA, 75 mg./m³ stel).

CERCLA SUPERFUND, 40 CFR 117, 302:

This product contains naphthalene, a RQ (reportable quantity) substance. The RQ for naphthalene is 100 pounds). If a spill of this product contains 100 or more pounds of Naphthalene, it requires notification to the National Response Center, Washington D.C. (800-424-8802). There may also be state and local requirements to report spills.

SARA SUPERFUND Amendments and Reauthorization Act of 1986 (Title III) - Sections 302,311,312,313.

Section 302 - This product does not contain any components found in App. A/B (Extremely Hazardous Substance).

Section 311,312 - This product has been determined to be hazardous, and should be reported under the following EPA hazard categories:

(x) Immediate (acute) health hazard; (x) Fire hazard.

Under SARA 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

Section 313 - List of Toxic Chemicals (40 CFR 372): This product contains the following component that appears on the list of Toxic Chemicals. NAPHTHALENE CAS# 91-20-3 14% maximum

Toxic Substances Control Act (TSCA): The component(s) in this product are on the 8(b) Inventory List, 40 CFR (710).

REGULATORY INFORMATION (continued)

Resource Conservation and Recovery Act (TSCA) : 40 CFR 261 Subpart C & D

Federal Water Pollution Control Act, Clean Water Act, 40 CFR 401.15/formerly Sec. 307, 40 CFR 116/formerly Sec. 311. This product contains the following ingredients covered by the Clean Water Act: NAPHTHALENE Se.. 307,311

Clean Air Act. Sec. 111 (40 CFR 60), Sec. 112 (40 CFR 61, 1990 Amend.), Sec. 611 (40 CFR 82, Class I & II Ozone depleting substances) This product contains the following ingredients covered under the CAA: NAPHTHALENE - Sec. 112

STATE REGULATIONS:

California Proposition 65: Benzene, known to California to cause cancer, may be present as an impurity or residue.

Michigan Critical Materials: This product contains the following ingredient(s) identified on the Michigan Critical Materials Register: NAPHTHALENE

State Right to Know Laws: The following ingredient(s) are disclosed for compliance with the state right to know laws:

METHYLNAPHTHALENE(S)	91-12-0
NAPHTHALENE(S)	91-20-3

INTERNATIONAL REGULATIONS:

This product is a WHMIS controlled product under the House of Commons of Canada Bill C-70 (class B3 and class D2A). The product contains the following substance(s), from the Ingredient Disclosure List or has been evaluated based on its toxicological properties, to contain the following hazardous ingredient(s):

HEAVY AROMATIC PETROLEUM NAPHTHA	64742-94-5	84%-94%
NAPHTHALENE	91-20-3	14% Maximum

TSCA STATUS: This components of this product are listed on the EPA/TSCA inventory of chemicals.

DATE PREPARED: OCTOBER 2001	UNIAROM® SX 165 DA
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