

1. PRODUCT NAME: Exxon D110 Solvent
2. CHEMICAL NAME: Distillates (petroleum), hydrotreated light
3. SYNONYMS:
4. CAS NUMBER: 64742-47-8
5. COMPOSITION: Distillates (petroleum), hydrotreated light
Cas: 64742-47-8 - 100%

IN CASE OF
TRANSPORT EMERGENCY
CONTACT CHEMTREC
USA: 1-800-424-9300
INTERNATIONAL: 1-703-527-3887

6. PROPERTIES: The following data are approximate or typical values and should not be used for precise design purpose.
BOILING RANGE: 249-268~C (480-514~F)
SPECIFIC GRAVITY: (15.6~C/15.6~C) 0.81 (6.77 lb/gal)
MOLECULAR WEIGHT: 195
PH: Essentially neutral
POUR, CONGEALING OR MELTING POINT: Less than -18~C (0~F), Pour Point by ASTM D 97
VISCOSITY: 3.46 cSt @ 25~C (77~F) ASTM D 445
VAPOR PRESSURE: Less than 0.1 mm Hg @ 20~C (68~F) ASTM D 2879
VAPOR DENSITY (AIR=1): 6.3
PERCENT VOLATILE BY VOLUME: 100 @ atm. And 25~C (77~F)
EVAPORATION RATE @ 1 ATM. AND 25~C:
(77~F) (n-BUTYL ACETATE = 1): Less than 0.01
SOLUBILITY IN WATER @ 1 ATM AND 25~C (77~F): Negligible; 0.0001%
FLASH POINT (MINIMUM): 105~C (221~F) ASTM D 93, Pensky Martens Closed Cup
AUTOIGNITION TEMPERATURE: Approximately 211~C (412~F) ASTM E 659

7. HAZARDS: HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS)
Health: 1, Flammability: 1, Reactivity: 0, BASIS: Recommended by Exxon
NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)
Health: 1, Flammability: 1, Reactivity: 0, BASIS: Recommended by Exxon
HEALTH AND HAZARD INFORMATION
VARIABILITY AMONG INDIVIDUALS: Health studies have shown that many petroleum hydrocarbons and synthetic lubricants pose potential human health risks which may vary from person to person. As a precaution, exposure to liquids, vapors, mists or fumes should be minimized.
EFFECTS OF OVEREXPOSURE (SIGNS AND SYMPTOMS OF OVEREXPOSURE):
High vapor concentrations (greater than approximately 700 ppm, attainable at elevated temperatures well above ambient) are irritating to the eyes and the respiratory tract, and may cause headache, dizziness, anesthesia, drowsiness, unconsciousness, and other central nervous system effects, including death.
NATURE OF HAZARD AND TOXICITY INFORMATION: Prolonged or repeated skin contact with this product tends to remove skin oils, possible leading to irritation and dermatitis; however, based on human experience and available toxicological data, this product is judged to be neither a "corrosive" nor an "irritant" by OSHA criteria.
Product contacting the eyes may cause eye irritation.
Product has a low order of acute oral and dermal toxicity, but minute amounts aspirated into the lungs during ingestion or vomiting may cause mild to severe pulmonary injury and possibly death.
This product is judged to have an acute oral LD50 (rat) greater than 5 g/kg of body weight, and an acute dermal LD50 (rabbit) greater than 3.16 g/kg of body weight.
Information electrical equipment appropriate for use with this product may be found in the latest edition of the National Electrical Code (NFPA-70). This document is available from the National Fire Protection Association, Batterymarch Park, Quincy, Massachusetts 02269.



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8. FIRE FIGHTING INFORMATION: FLASH PINT (MINIMUM): 105~C (221~F) ASTM D 93, Pensky Martens Closed Cup
AUTOIGNITION TEMPERATURE: Approximately 211~C (412~F) ASTM E 659
NOTE: The Autoignition temperature of this product is relatively low and is reached during laboratory distillation by ASTM Method D 86. Therefore, if the procedure is interrupted, the distillation flask must be cooled before the contents are exposed to air.
HANDLING PRECAUTIONS: Use product with caution around heat, sparks, pilot lights, static electricity, and open flame.
FLAMMABILITY OR EXPLOSIVE LIMITS (APPROXIMATE PERCENT BY VOLUME IN AIR):
Estimated values: Lower Flammable Limit 1.6%, Upper Flammable Limit 10.2%
EXTINGUISHING MEDIA AND FIRE FIGHTING PROCEDURES: Foam, water spray (fog), dry chemical, carbon dioxide and vaporizing liquid type extinguishing agents may all be suitable for extinguishing fires involving this type of product, depending on size or potential size of fire and circumstances related to the situation. Plan fire protection and response strategy through consultation with local fire protection authorities or appropriate specialists.
The following procedures for this type of product are based on the recommendations in the National Fire Protection Association's "Fire Protection Guide on Hazardous Materials", Tenth Edition (1991):
PRE-EXISTING MEDICAL CONDITIONS WHICH MAY BE AGGRAVATED BY EXPOSURE: Petroleum Solvents/Petroleum Hydrocarbons – Skin contact may aggravate an existing dermatitis.
9. PERSONAL PROTECTION MEASURES: VENTILATION: Use only with ventilation sufficient to prevent exceeding recommended exposure limit or buildup of explosive concentrations of vapor in air. No smoking, or use of flame or other ignition sources.
RESPIRATORY PROTECTION: Use supplied-air respiratory protection in confined or enclosed spaces, if needed.
PROTECTIVE GLOVES: Use Chemical-resistant gloves, if needed, to avoid prolonged or repeated skin contact.
EYE PROTECTION: Use splash goggles or face shield when eye contact may occur.
OTHER PROTECTIVE EQUIPMENT: Use Chemical-resistant apron or other impervious clothing, if needed, to avoid contaminating regular clothing, which could result in prolonged or repeated skin contact.
WORK PRACTICES/ENGINEERING CONTROLS: To prevent fire or explosion risk from static accumulation and discharge, effectively ground product transfer system in accordance with (THE) National Fire Protection Association PUBLICATIONS.
Keep containers closed when not in use.
Do not store near heat, sparks, flame or strong oxidants. To prevent fire or explosion risk from static accumulation and discharge, effectively ground product transfer system in accordance with the National Fire Protection Association standard for petroleum products.
In order to prevent fire or explosion hazards, use appropriate equipment.
Use water spray, dry chemical, foam or carbon dioxide to extinguish the fire. Use water to keep fire-exposed containers cool. If a leak or spill has not ignited, use water spray to disperse the vapors and to provide protection for persons attempting to stop a leak. Water spray may be used to flush spills away from exposures. Minimize breathing of gases, vapor, fumes or decomposition products. Use supplied-air breathing equipment for enclosed or confined spaces or as otherwise needed.
DECOMPOSITION PRODUCTS UNDER FIRE CONDITIONS: Fumes, smoke, carbon monoxide, sulfur oxides, aldehydes and other decomposition products, in the case of incomplete combustion.
"EMPTY" CONTAINER WARNING: "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, static electricity, or other sources of ignition; they may explode and cause injury or death.
Do not attempt to refill or clean containers since residue is difficult to remove. "Empty" drums should be completely drained, properly bunged and promptly returned to a drum reconditioner. All other containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations. For work on tanks refer to Occupational Safety and Health Administration regulations, ANSI Z49.1, and



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other governmental and industrial references pertaining to cleaning, repairing, welding, or other contemplated operations. **PERSONAL HYGIENE:** Minimize breathing vapor or mist. Avoid prolonged or repeated contact with skin. Remove contaminated clothing; launder or dry-clean before re-use. Remove contaminated shoes and thoroughly clean and dry before re-use. Cleanse skin thoroughly after contact, before breaks and meals, and at end of work period. Product is readily removed from skin by waterless hand cleaners followed by washing thoroughly with soap and water.

10. FIRST AID PROCEDURES: **EYE CONTACT:** If splashed into the eyes, flush with clear water for 15 minutes or until irritation subsides. If irritation persists, call a physician.

SKIN: In case of skin contact, remove any contaminated clothing and wash skin with soap and water. Launder or dry-clean clothing before reuse. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

INHALATION: If overcome by vapor, remove from exposure and call a physician immediately. If breathing is irregular or has stopped, start resuscitation, administer oxygen, if available.

INGESTION: If ingested, DO NOT induce vomiting; call a physician immediately.

11. EXPOSURE LIMITS: **EXPOSURE LIMIT FOR TOTAL PRODUCT:** 300 ppm (2400 mg/m³) for an 8-hour workday.

12. TOXICOLOGICAL INFORMATION: **EFFECTS OF OVEREXPOSURE (SIGNS AND SYMPTOMS OF OVEREXPOSURE):**

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NATURE OF HAZARD AND TOXICITY INFORMATION: Prolonged or repeated skin contact with this product tends to remove skin oils, possibly leading to irritation and dermatitis; however, based on human experience and available toxicological data, this product is judged to be neither a "corrosive" nor an "irritant" by OSHA criteria.

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This product is judged to have an acute oral LD₅₀ (rat) greater than 5 g/kg of body weight, and an acute dermal LD₅₀ (rabbit) greater than 3.16 g/kg of body weight.

13. ECOLOGICAL ENVIRONMENTAL INFORMATION

INFORMATION: **CLEAN WATER ACT/OIL POLLUTION ACT:** This product may be classified as an oil under Section 311 of the Clean Water Act, and under the Oil Pollution Act. Discharges or spills into or leading to surface waters that cause a sheen must be reported to the National Response Center (1-800-424-8802).

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Shut off and eliminate all ignition sources. Keep people away. Recover free product. Add sand, earth or other suitable absorbent to spill area. Minimize breathing vapors. Minimize skin contact. Ventilate confined spaces. Open all windows and doors. Keep product out of sewers and watercourses by diking or impounding. Advise authorities if product has entered or may enter sewers, watercourses, or extensive land area.

Assure conformity with applicable governmental regulations. Continue to observe precautions for volatile, combustible vapors from absorbed material.

THE FOLLOWING INFORMATION MAY BE USEFUL IN COMPLYING WITH VARIOUS STATE AND FEDERAL LAWS AND REGULATIONS UNDER VARIOUS ENVIRONMENTAL STATUTES: **THRESHOLD PLANNING QUANTITY (TPQ), EPA REGULATION 40 CFR 355 (SARA Sections 301-304):** No TPQ for product or any constituent greater than 1% or 0.1% (carcinogen).



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TOXIC CHEMICAL RELEASE REPORTING, EPA REGULATION 40 CFR 372 (SARA Section 313):

No toxic chemical is present greater than 1% or 0.1%(carcinogen).

HAZARDOUS CHEMICAL REPORTING, EPA REGULATION 40 CFR 370 (SARA Sections 311-312):

EPA HAZARD

CLASSIFICATION CODE:

ACUTE: Hazard

CHRONIC: Hazard

FIRE: Hazard

PRESSURE: Hazard

REACTIVE: Hazard

NOT APPLICABLE: XXX

14. DISPOSAL CONSIDERATIONS: Follow all government regulations.

15. CARCINOGENIC PROPERTIES & NOTIFICATIONS: NE

16. TRANSPORT INFORMATION: U.S. DOT HAZARDOUS MATERIALS SHIPPING DESCRIPTION: Not regulated.
OSHA REQUIRED LABEL INFORMATION: In compliance with hazard and right-to-know requirements, where applicable OSHA Hazard Warnings may be found on the label, bill of lading or invoice accompanying this shipment.

17. HANDLING & STORAGE: To prevent fire or explosion risk from static accumulation and discharge, effectively ground product transfer system in accordance with (THE) National Fire Protection Association PUBLICATIONS.
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In order to prevent fire or explosion hazards, use appropriate equipment. "EMPTY" CONTAINER WARNING: "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, static electricity, or other sources of ignition; they may explode and cause injury or death.
Do not attempt to refill or clean containers since residue is difficult to remove. "Empty" drums should be completely drained, properly bunged and promptly returned to a drum reconditioner. All other containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations. For work on tanks refer to Occupational Safety and Health Administration regulations, ANSI Z49.1, and other governmental and industrial references pertaining to cleaning, repairing, welding, or other contemplated operations.

18. ACCIDENTAL RELEASE MEASURES: STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Shut off and eliminate all ignition sources. Keep people away. Recover free product. Add sand, earth or other suitable absorbent to spill area. Minimize breathing vapors. Minimize skin contact. Ventilate confined spaces. Open all windows and doors. Keep product out of sewers and watercourses by diking or impounding. Advise authorities if product has entered or may enter sewers, watercourses, or extensive land area.
Assure conformity with applicable governmental regulations. Continue to observe precautions for volatile, combustible vapors from absorbed material.

19. REGULATORY ENVIRONMENTAL INFORMATION: CLEAN WATER ACT/OIL POLLUTION ACT: This product may be classified as an oil under Section 311 of the Clean Water Act, and under the Oil Pollution Act. Discharges or spills into or leading to surface



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