



SAFETY DATA SHEET

SOLVENT D110

1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Product name: SOLVENT D110

Recommended use: Chemical for industrial

Manufacturer/Supplier: **MODERN CHEMICAL CO.,LTD.**
82/80 Soi Eakamai 22 (Nuan-noi) Sukhumvit Road 63,
North Klong Ton, Wattana, Bangkok 10110

Telephone No: 0-2715-0897-9, 0-2392-3410-3

Fax No: 0-2715-0908-9, 0-2391-1571-2

Emergency Telephone No: 0-2715-0897-9, 0-2392-3410-3

2. HAZARDS IDENTIFICATION

Label elements

Pictogram



Signal word

Danger

Hazard statement(s)

- 1.) Causes skin irritation.
- 2.) May be fatal if swallowed and enters airways.
- 3.) May cause drowsiness or dizziness.
- 4.) Toxic to aquatic life with long lasting effects.
- 5.) May damage the unborn child. Suspected of damaging fertility.

Precautionary statement(s)

- 1.) Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
- 2.) Avoid release to the environment.
- 3.) IF SWALLOWED: call a doctor/physician. Do NOT induce vomiting.



4.) IF IN EYES: Rinse cautiously with water for 15 minutes.

5.) IF ON SKIN Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonym: No data available

Ingredients	% (w/w)	CAS NO.
SOLVENT D110	100	64742-47-8

4. FIRST AID MEASURES

General advice:

Ensure self protection. Show this safety data sheet to the doctor in attendance.

Inhalation:

Remove victim to fresh air. If cough or other respiratory symptoms develop, get medical attention. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

Skin contact:

Wash material off the skin with copious amounts of soap and water. If irritation develops, get medical attention. Wash contaminated clothing and decontaminate footwear before reuse.

Eye contact:

If contact eye, Rinse out with plenty of water for at least 15 minutes. Obtain medical attention.

Ingestion:

Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

Use water fog, foam, dry chemical or carbon dioxide (CO₂) to extinguish flames.

Unsuitable Extinguishing Media

Straight streams of water

Specific hazards arising from Chemicals

Smoke, Fume, Incomplete combustion products, Oxides of carbon.

Special protective equipment for fire-fighters.

No data available



6. ACCIDENTAL RELEASE MEAS

Personal precautions:

Avoid contact with spilled material. Keep unnecessary and unprotected personnel away. Keep upwind, evacuate downwind. Warn personnel of toxicity and flammability of the substance. Evacuate personnel to safe areas. See Section 5 for fire fighting information. See Section 3 for the Hazard Identification. See Section 4 for First Aid Advice. See Section 8 for advice on the minimum requirements for personal protective equipment. Additional protective measures may be necessary, depending on the specific circumstances and/or the expert judgment of the emergency responders.

Environmental precautions:

Large Spills: Dyke far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas.

Methods and Material for Containment and Clean Up:

Land Spill: Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do so without risk. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Prevent entry into waterways, sewer, basements or confined areas. A vapour-suppressing foam may be used to reduce vapour. Use clean non-sparking tools to collect absorbed material. Large Spills: Water spray may reduce vapour, but may not prevent ignition in enclosed spaces.

Water Spill: Stop leak if you can do so without risk. Eliminate sources of ignition. Warn other shipping.

7. HANDLING AND STORAGE

Precautions for Safe Handling & Product Transfer:

Avoid contact with skin. Small metal particles from machining may cause abrasion of the skin and may predispose to dermatitis. Prevent small spills and leakage to avoid slip hazard. Material can accumulate static charged which may cause an electrical spark (ignition source). When the material is handle in bulk, an electrical spark could ignite any flammable vapour from liquid or residues that may be present (e.g., during switch –loading operations). Use proper bonding and/or earthing procedures. However, bonding and earthing may not eliminate the hazard from static accumulation. Consult local applicable standards for guidance. Additional references include American Petroleum Institute 2003.



Conditions for Safe Storage & Unsuitable Materials:

The type container used to store the material may affect static accumulation and dissipation. Do not store in open or unlabelled containers. Keep container closed. Handle containers with care. Open slowly in order to control possible pressure release. Store in a cool, well-ventilated area.

Suitable Materials and coating: Carbon steel, Stainless Steel, Teflon, Polyethylene, Polypropylene

Unsuitable Materials and coating: Butyl Rubber, Polystyrene, Ethylene-propylene-diene monomer(EPDM), Natural Rubber

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits: TWA 143 ppm

Appropriate Engineering Controls: No data available

Individual Protection Measures

Respiratory protection: If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include: Half-face filter respirator Type A filter material.

Hand protection: Any specific glove information provided is based on published literature and glove manufacturer data. Glove suitability and breakthrough time will differ depending on the specific use conditions. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include: If prolong or repeated contact is likely, chemical-resistant gloves are recommended. If contact with forearms is likely, wear gauntlet-style gloves. Nitrile.

Eye protection: If contact is likely, safety glasses with side shields are recommended.

Skin and body protections: Any specific clothing information provided is based on published literature or manufacturer data. The types of clothing to be considered for this material include: Chemical/oil resistant clothing is recommended.

Hygiene measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.



9. PHYSICAL AND CHEMICAL PROPERTIES

Form, Color and Odor : liquid, Colorless , Characteristic	Evaporation rate : <0.01 (n-butyl Acetate=1)
Melting Point : N/A	Specific gravity : 0.7800-0.8300 kg/dm ³ at 15.6 °C
pH : N/A	Solubility in water : Not Soluble
Boiling point : 248-269 °C	Viscosity : 2.6 cSt at 40°C
Vapour pressure : 0.001 kPa(0.01 mm Hg) at 20°C	Vapour density (air=1) : 7 at 101 kPa
Lower explosive limits : 0.5%Vol	Upper explosive limits : 5.0%Vol
Auto-ignition temperature : 234°C	Flash point: 115 °C
Odour threshold: N/A	Flammability (solid, gas): N/A
Decomposition temperature: N/A	Solubility in other solvents: N/A
n-octanol/water partition coefficient (log P_{ow}): >4	

10. STABILITY AND REACTIVITY

Chemical Stability:	Material is stable under normal conditions.
Reactions:	No data available
Possibility of Hazardous Reactions:	Hazardous polymerization will not occur.
Conditions to avoid:	Open flames and high energy ignition sources.
Materials to avoid:	Strong oxidisers
Hazardous decomposition products:	Material does not decompose at ambient temperatures.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:	LD50 (Oral, rat): >5000 mg/kg LD50 (Skin, rabbit) : >5000 mg/kg LC50 (Inhalation, rat): >5000 mg/m3
Sensitization:	Vapour/aerosol concentration above recommended exposure levels are irritation to the eyes and respiratory tract, may cause headaches, dizziness, anaesthesia, drowsiness, unconsciousness and other central nervous system effects including death. Prolonged and/or repeated skin contact with low viscosity materials may defat the skin resulting in possible irritation and dermatitis. Small amounts of liquid aspirated into the lungs during ingestion or from vomiting may cause chemical pneumonitis or pulmonary edema.



Chronic toxicity: Anticipated health effects from sub-chronic, chronic, respiratory or skin sensitization, mutagenicity, reproductive toxicity, carcinogenicity, target organ toxicity (single exposure or repeated exposure), aspiration toxicity and other effects based on human experience and/or experimental data.

Further toxicological information: No data available

12. ECOLOGICAL INFORMATION

Toxicity

Toxicity to fish: Not expected to be harmful to aquatic organisms.

Toxicity to daphnia and other aquatic invertebrates :

Not expected to demonstrate chronic toxicity to aquatic organisms

Toxicity to algae No data available

Toxicity to bacteria No data available

Biodegradability Remarks: Expected to be readily biodegradable. Expected to degrade rapidly in air.

Bioaccumulative Potential: No data available

Mobility: Low solubility and floats and is expected to migrate from water to the land.
Expected to partition to sediment and wastewater solids.

Affected in any other way: No data available

13. DISPOSAL CONSIDERATIONS

Material Disposal: Product is suitable for burning in an enclosed controlled burner for fuel value or disposal by supervised incineration at very high temperatures to prevent formation of undesirable combustion products.

Container Disposal: Empty Container warning (where applicable): Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. 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.



14. TRANSPORT INFORMATION

ADR/ADNR

Not Regulated for Land Transport

IMGD

Not Regulated for Sea Transport according to IMDG-Code

Marine Pollutant: No

SEA (MARPOL 73/78 Convention – Annex II)

Product Name: NOXIOUS LIQUID, N.F.,(7) N.O.S., (EXXSOL D110 , contains alkyl (C5-C8) benzenes)

Ship Type: 3

Pollution category: Y

IATA

Not Regulated for Air Transport

15. REGULATORY INFORMATION

GHS-Labeling

Hazard statement(s):

No data available

Precautionary statement(s):

No data available

R - phrase(s):

No data available

S - phrase(s):

No data available

16. Other Information

Modern Chemical Co.,Ltd. provides the information contained herein in good faith but makes no representation as to its comprehensive or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.

MODERN CHEMICAL CO., LTD. MAKES NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE INFORMATION



บริษัท โมเดิร์นเคมีเคิล จำกัด (สำนักงานใหญ่)

(MODERN CHEMICAL CO.,LTD. (Head Office))

82/80 ซอยเอกมัย 22(นวลน้อย) ถ.สุขุมวิท 63 แขวงคลองตันเหนือ เขตวัฒนา กรุงเทพมหานคร 10110 โทร0-2715-0897-9 แฟกซ์.0-2392-3410-3

82/80 Soi Eakmai 22(nuan-noi) 63 Sukhumvit Rd, North Klong Ton, Wattana, Bangkok 10110 E-mail : service@modernchemical

SET FORTH HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS. ACCORDINGLY,
MODERN CHEMICAL CO.,LTD

Modernchemical co.,Ltd.