82/80 ซอยเอกมัย 22(นวลน้อย) ล.สุขุมวิท 63 แบวงคลองคันเหนือ เขตวัฒนา กรุงเทพมหานคร 10110 โทร 0-2715-0897-9 แฟกซ์.0-2392-3410-3 82/80 Soi Eakmai 22(nuan-noi) 63 Sukhumvit Rd, Klong Ton Nuea, Wattana, Bangkok 10110 E-mail: service@modernchemical.co.th

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 Ekamai 22 (Nuannoi), Sukhumvit 63,

Klong Tan Nuea, Watthana, 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.) May be fatal if swallowed or enters airways.

Precautionary statement(s):

- 1.) IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- 2.) Do NOT induce vomiting.
- 3.) Store locked up.
- 4.) Dispose of contents and container in accordance with local regulations.



82/80 ซอขเอกมัย 22(นวลน้อย) ถ.สุขุมวิท 63 แขวงคลองตันเหนือ เขตวัฒนา กรุงเทพมหานคร 10110 โทร 0-2715-0897-9 แฟกซ์.0-2392-3410-3 82/80 Soi Eakmai 22(nuan-noi) 63 Sukhumvit Rd, Klong Ton Nuea, Wattana, Bangkok 10110 E-mail: service@modernchemical.co.th

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonym: N/A

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

4. FIRST AID MEASURES

General advice: No data available.

Inhalation: Remove from further exposure. For those providing assistance, avoid exposure to yourself

or other. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or

unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist

ventilation with a mechanical device or use mouth-to-mouth resuscitation.

Skin contact: Wash contact areas with soap and water. Remove contaminated clothing. Launder

contaminated clothing before reuse.

Eye contact: Flush thoroughly with water. If irritation occurs, get medical assistance.

Ingestion: Seek immediate medical attention. Do not induce vomiting.

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:

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

Special protective equipment for fire-fighters:

Fire-fighters should use standard protective equipment include protective coat, fire helmet, gloves, boots, in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.

6. ACCIDENTAL RELEASE MEAS

Precautions: Avoid contact with spilled material. See Section 5 for fire fighting information. See

the Hazard Identification Section for Significant Hazards. See Section 4 for First

Aid Advice. See Section 8 for advice on the minimum requirements for personal

82/80 ซอยเอกมัย 22(นวลน้อย) ถ.สุขุมวิท 63 แบวงคลองคันเหนือ เขตวัฒนา กรุงเทพมหานคร 10110 โทร0-2715-0897-9 แฟกซ์.0-2392-3410-3 82/80 Soi Eakmai 22(nuan-noi) 63 Sukhumvit Rd, Klong Ton Nuea, Wattana, Bangkok 10110 E-mail: service@modernchemical.co.th

protective equipment. Additional protective measures may be necessary, depending on the specific circumstances and/or the expert judgment of the emergency responders. For emergency responders: Respiratory protection: half-face or full-face respirator with filter(s) for organic vapor and, when applicable, H₂S, or Self Contained Breathing Apparatus (SCBA) can be used depending on the size of spill and potential level of exposure. If the exposure cannot be completely characterized or an oxygen deficient atmosphere is possible or anticipated, SCBA is recommended. Work gloves that are resistant to aromatic hydrocarbons are recommended. Note: gloves made of polyvinyl acetate (PVA) are not water-resistant and are not suitable for emergency use. Chemical goggles are recommended if splashes or contact with eyes is possible. Small spills: normal antistatic work clothes are usually adequate. Large spills: full body suit of chemical resistant, antistatic material is recommended.

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: Stop leak if you can do so without risk. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Recover by pumping or with suitable absorbent.

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

Remove from the surface by skimming or with suitable absorbents. Seek the advice of a specialist before using dispersants.

Water spill and land sill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note: Local regulations may prescribe or limit action to be taken.

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 charges which may

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82/80 ซอยเอกมัย 22(นวลน้อย) ล.สุขุมวิท 63 แบวงคลองคันเหนือ เขตวัฒนา กรุงเทพมหานคร 10110 โทร 0-2715-0897-9 แฟกซ์.0-2392-3410-3 82/80 Soi Eakmai 22(nuan-noi) 63 Sukhumvit Rd, Klong Ton Nuea, Wattana, Bangkok 10110 E-mail: service@modernchemical.co.th

cause an electrical spark (ignition source). When the material is handled in bulk, an electrical spak could ignite any flammable vapors from liquids or residues that may be present (e.g., during swich-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 (Protection Against Ignitions Arising out of Static, Lightning and Stray Currents) or National Fire Protection Agency 77 (Recommended Practice on Static Electricity) or CENELEC CLC/TR 50404 (Electrostatics-Code of practice for the avoidance of hazards due to static electricity).

Conditions for Safe Storage & Unsuitable Materials:

The type of container used to store the material may effect 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.

Storage Temperature: Ambient

Storage Pressure: Ambient

Suitable Containers/Packing: Drums; Tank Cars; Tank Trucks; Barges

Suitable Materials and Coatings (Chemical Compatibility): Carbon Steel, Stainless Steel, Teflon, Polyethylene, Polypropylene.

Unsuitable Materials and Coatings: Butyl Rubber, Polystyrene, Ethylene-proplyene-diene monomer (EPDM), Natural Rubber.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits: TWA 143 ppm

Appropriate Engineering Controls: Adequate ventilation should be provided so that exposure limits are not

exceeded.

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

82/80 ซอยเอกมัย 22(นวลน้อย) ถ.สุขุมวิท 63 แขวงคลองคันเหนือ เขตวัฒนา กรุงเทพมหานคร 10110โทร0-2715-0897-9 แฟกซ์.0-2392-3410-3 82/80 Soi Eakmai 22(nuan-noi) 63 Sukhumvit Rd, Klong Ton Nuca, Wattana, Bangkok 10110 E-mail: service@modernchemical.co.th

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 prolonged 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 Protection: Any specific clothing information provided is based on published literature or

manufacturer data. The types of clothing to be considered for this material include:

If prolonged or repeated contact is likely, chemical, and oil resistant clothing is

recommended.

Hygiene measure: 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, Slight	Evaporation rate: < 0.01 (n-butyl acetate = 1)	
Melting Point : N/A	Specific gravity : 0.780 - 0.830 g/cm ³ at 15.6 °C	
pH: N/A	Solubility in water: Negligible	
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/D	Flammability (solid, gas): N/A	
Decomposition temperature: N/D	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.

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Materials to avoid: Strong oxidizers.

Hazardous decomposition products: Material does not decompose at ambient temperatures.

11. TOXICOLOGICAL INFORMATION

Acute toxicity: LD50 (Oral, rat): >5,000 mg/kg

LC50 (Inhalation, rat): >5,000 mg/m³

LD50 (Skin, rabbit): >5,000 mg/kg

Sensitization: Vapour/aerosol concentrations above recommended exposure levels are

irritating to the eyes and respiratory tract, may cause headaches, dizziness,

anaesthesia, drowsiness, unconsciousness and other central nervous system

effects including death. Prolonged 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, 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.

Transformation due to hydrolysis and photolysis not expected to be

significant.



82/80 ซอยเอกมัย 22(นวลน้อย) ถ.สุขุมวิท 63 แขวงคลองตันเหนือ เขตวัฒนา กรุงเทพมหานคร 10110โทร0-2715-0897-9 แฟกซ์.0-2392-3410-ว 82/80 Soi Eakmai 22(nuan-noi) 63 Sukhumvit Rd, Klong Ton Nuea, Wattana, Bangkok 10110 E-mail: service@modernchemical.co.th

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

SEA (MARPOL 73/78 Convention – Annex II)

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

Ship Type: 3

Pollution category: Y

AIR (IATA)

Not Regulated for Air Transport

82/80 ซอยเอกมัย 22(นวลน้อย) ถ.สุขุมวิท 63 แบวงคลองคันเหนือ เขควัฒนา กรุงเทพมหานคร 10110 โทร0-2715-0897-9 แฟกซ์.0-2392-3410-3 82/80 Soi Eakmai 22(nuan-noi) 63 Sukhumvit Rd, Klong Ton Nuea, Wattana, Bangkok 10110 E-mail: service@modernchemical.co.th

15. REGULATORY INFORMATION

This material is considered hazardous according to the classification criteria of the Hazard Classification and Communication System for Hazardous Material BE 2555.

REGULATORY STATUS AND APPLICABLE LAWS AND REGULATIONS

Hazardous Substance Act BE2535: Not Regulated

Listed or exempt from listing / notification on the following chemical inventories: AICS, DSL, ENCS, IECSC, KECI, PICCS, TCSI, TSCA

16. Other Information

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