



SAFETY DATA SHEET

SOLVENT 1425

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

Product name: SOLVENT 1425
Recommended use: Chemical for industry.
Manufacturer/Supplier: **MODERN CHEMICAL Co.Ltd.**
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2. HAZARDS IDENTIFICATION

Label elements

Pictogram



Signal word

Danger

Hazard statement(s):

- 1.) Highly flammable liquid and vapour.
- 2.) May be fatal if swallowed and enters airways.
- 3.) Causes skin irritation.
- 4.) May cause drowsiness or dizziness.
- 5.) Suspected of damaging the unborn child.
- 6.) May cause damage to organs through prolonged or repeated exposure.
- 7.) Toxic to aquatic life with long-lasting effects.

Precautionary statement(s):

- 1.) Obtain special instructions before use.
- 2.) Do not handle until all safety precautions have been read and understood.



- 3.) Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- 4.) Keep container tightly closed.
- 5.) Ground/bond container and receiving equipment.
- 6.) Use explosion-proof electrical ventilating, and lighting equipment.
- 7.) Use only non-sparking tools.
- 8.) Take precautionary measures against static discharge.
- 9.) Do not breathe dust/vapours.
- 10.) Wash skin thoroughly after handling.
- 11.) Use only outdoors or in a well-ventilated area.
- 12.) Avoid release to the environment.
- 13.) Wear protective gloves/protective clothing/eye protection/face protection.
- 14.) IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- 15.) IF ON SKIN: Wash with plenty of soap and water.
- 16.) IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- 17.) IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- 18.) IF exposed or concerned: Get medical advice/attention.
- 19.) Call a POISON CENTER or doctor/physician if you feel unwell.
- 20.) Do NOT induce vomiting.
- 21.) If skin irritation occurs: Get medical advice/attention.
- 22.) Take off contaminated clothing and wash before reuse.
- 23.) In case of fire: Use water fog, foam, dry chemical or carbon dioxide (CO₂) to extinguish.
- 24.) Collect spillage.
- 25.) Store in a well-ventilated place. Keep cool.
- 26.) Store locked up.
- 27.) Dispose of contents and container in accordance with local regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonym: Naphtha (petroleum), hydrotreated light, Pegasol 1425, Shellsol 60/145, Exxsol DSP 80/100

Ingredients	% (w/w)	CAS NO.
SOLVENT 1425	100	64742-49-0



4. FIRST AID MEASURES

- General advice:** No data available.
- Inhalation:** Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. 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 :

Foam, dry chemical or carbon dioxide 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 wear appropriate personal protective equipment include clothing flame protection, Safety helmet, Neoprene or nitrile gloves to prevent skin contact, and boot. Fire-fighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA).

6. ACCIDENTAL RELEASE MEASURES

- 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 expect 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 breathing mists or vapour. Avoid contact with skin. Prevent exposure to ignition sources, for example use non-sparking tools and explosion-proof equipment. Potentially toxic/irritating fumes/vapour may be evolved from heated or agitated material. Use only with adequate ventilation. Prevent small spills and leakage to avoid slip hazard. Material can accumulate static charges which may cause an electrical spark (ignition source). Use proper bonding and/or earthing procedures. However, bonding and earthing may not eliminate the hazard from static accumulation.

Conditions for Safe Storage & Unsuitable Materials:

The type of container used to store the material may effect static accumulation and dissipation. Keep container closed. Handle containers with care. Open slowly in order to control possible pressure release. Store in a cool, well-ventilated area. Storage containers should be earthed and bonded. Fixed storage containers, transfer containers and associated equipment should be grounded and bonded to prevent accumulation of static charge.

Suitable Materials and Coatings (chemical Compatibility): Carbon Steel; Stainless Steel; Teflon;

Polyethylene; Polypropylene, Poly ester

Unsuitable Materials and Coatings: Butyl Rubber; Polystyrene; Ethylene-propylene-diene monomer (EPDM);

Natural Rubber

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits: TWA 159 ppm



Appropriate Engineering Controls: Adequate ventilation should be provided so that exposure limits are not exceeded. Use explosion-proof ventilation equipment.

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
For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapour warning properties are poor, or if air purifying filter capacity/rating may be exceeded.

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 there is a chance of contact with the substance in the arm. Wear gloves that cover the arms of use 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: Chemical and oil resistant apron protective clothing.

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, colourless, , Petroleum	Evaporation rate : 6 (n-butyl acetate = 1)
Melting Point : N/D	Specific gravity : 0.720 kg/dm ³ at 15 °C
pH : N/A	Solubility in water : Negligible



Boiling : 75-115 °C	Viscosity : 0.43 cSt at 40 °C, 0.56 cSt at 25 °C
Vapour pressure : 8.65 kPa at 20 °C	Vapour density : N/D
Lower explosion limits : 1.0 %Vol	Upper explosive limit: 7.0 %Vol
Auto-ignition temperature : >200 °C	Flash point : -15 °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}) : N/D	

10. STABILITY AND REACTIVITY

Chemical Stability:	Stable under recommended storage conditions.
Reactions:	No data available
Possibility of Hazardous Reactions:	Hazardous polymerization will not occur.
Conditions to avoid:	Heat, sparks, open flames and other ignition source.
Materials to be avoided:	Strong oxidizers
Hazardous Decomposition Products:	Material does not decompose at ambient temperatures.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:	LD50 (Oral – rat): > 5000 mg/kg
	LC50 (Inhalation – rat): > 20 mg/l
	LD50 (Dermal –rabbit): >3350 mg/kg

Sensitization:	Vapour concentration above recommended exposure levels are irritating to the eyes and the respiratory tract, may cause headaches and dizziness, are anaesthetic and may have other central nervous system effects. Small amounts of liquid aspirated into the lungs during ingestion or from vomiting may cause chemical pneumonitis or pulmonary edema. where there is the potential for high levels, such as in confined spaces or with abuse, may result in abnormal heart rhythm (arrhythmia). High-level exposure to hydrocarbons (above occupational exposure limits) may initiate arrhythmia in a worker that is undergoing stress or is taking a heart-stimulating substance such as epinephrine, a nasal decongestant, or an asthma or cardiovascular drug.
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Chonic 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: Expected to be toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Toxicity to daphnia and other aquatic invertebrates: No data available

Toxicity to algae: No data available

Toxicity to bacteria: No data available

Biodegradability Remarks: Expected to be readily biodegradable.
Expected to be readily decompose in air.

Bioaccumulative Potential: No data available

Mobility: Highly volatile, will partition rapidly to air. Not expected to partition to sediment and wastewater solide.

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

LAND

Proper Shipping Name: HYDROCARBON, LIQUID, N.O.S.

Hazard Class: 3

Hazchem Code: 3YE

UN Number: 3295

Packing group: II

Lable(s)/Mark(s): 3, EHS

SEA(IMDG)

Proper Shipping Name: HYDROCARBON, LIQUID, N.O.S. (heptane and isomer)

Hazard Class & Division: 3

EMS Number: F-E,S-D

UN Number: 3295

Packing group: II

Marine Pollutant: Yes

Lable(s): 3

Transport Document Name : UN3295 HYDROCARBON, LIQUID, N.O.S. (heptane and isomer), 3, PG II, (-15°C c.c.), MARINE POLLUTANT

AIR(IATA)

Proper Shipping Name: HYDROCARBON, LIQUID, N.O.S.

Hazard Class & Division: 3

UN Number: 3295

Packing group: II

Lable(s)/Mark(s): 3, EHS

Transport Document Name: UN3295, HYDROCARBONS, LIQUID, N.O.S., 3, PG II

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: Regulated



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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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