

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

DETAILS OF SUPPLIER OF SAFETY DATA SHEET :

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TRADE NAME	D 40
PRODUCT DESCRIPTION	Aliphatic Cycloparaffinic hydrocarbon
APPLICATION AND USE	Solvent, diluents, chemical feedstock, or fuel
CAS NUMBER(S)	64742-47-8

2. COMPOSITION AND INFORMATION ON INGREDIENTS

CHEMICAL NAME	Petroleum Hydrocarbon
CAS NUMBER	64742-47-8

3. NATURE OF HAZARDS

EYES	Liquid contact or exposure to high vapor concentrations may result in irritation.
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SKIN	Prolonged and repeated contact may result in irritation or cause dermatitis.
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INHALATION	This product is not an inhalation hazard under normal circumstances. Prolonged exposure to high vapor or mist concentrations may cause dizziness, headaches, and nasal
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irritation.

INGESTION Ingestion of small amounts may result in nausea and vomiting. Small amounts of the liquid aspirated into the respiratory system during ingestion, or from vomiting, may cause bronchopneumonia or pulmonary edema.

4. FIRST AID

EYE CONTACT Immediately flush eyes with large amount of water for at least 15 minutes. Seek medical attention.

SKIN CONTACT Remove contaminated clothing and shoes. Wash skin with water, using soap if available. If irritation persists, seek medical attention.

INHALATION Remove victim to fresh air immediately. Give Oxygen or artificial respiration as needed. Seek medical attention.

INGESTION If swallowed, do not induce vomiting. Give nothing by mouth. Seek medical attention immediately.

5. FIRE AND EXPLOSION DATA

FLASH POINT	43.0°C
AUTOIGNITION TEMPERATURE	N.A
FLAMMABLE LIMITS IN AIR	0.5 – 6.5 Vol% (Approx)

FIRE AND EXPLOSION

Combustible Liquid can form combustible mixtures at temperatures at or above the flash point.

HAZARD Empty containers retain product residues (Liquid and/or vapor)

and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or exposure such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death.

EXTINGUISHING MEDIA

Water spray, foam, dry chemical

FIRE FIGHTING Cool exposed equipment with water spray. Use self-contained breathing apparatus if fighting fire in confined spaces.

6. PROTECTION INFORMATION

PROTECTIVE EQUIPMENT

EYES Wear chemical goggles or safety shield.

SKIN Chemical gloves should be worn to prevent repeated contact. If potential for significant exposure to liquid exists, use full protective clothing and chemical boots.

RESPIRATORY PROTECTION

If needed, use organic vapor respiratory protection.

VENTILATION Mechanical ventilation is recommended if handling at elevated temperatures or if it is handled in such a manner as to cause mists or vapor to form.

7. PHYSICAL AND CHEMICAL DATA

APPEARANCE AND ODOR

Colorless, Low/Sweet Odor

SPECIFIC GRAVITY, 15/4 °C

0.7763 at 15/4 °C

BOILING RANGE, °C	163 – 188 °C
FLASH POINT (PM, °C)	43.0 °C
POUR POINT	- 55 °C
VISCOSITY	1.02 cSt at 40 °C
SOLUBILITY IN WATER	Insoluble
CHEMICAL REACTIVITY	Low Reactivity
HAZARDOUS POLYMERIZATION	Not Expected to Occur
HAZARDOUS DECOMPOSITION	None
STABILITY (Oxidation/Reduction)	Stable under Normal Conditions

8. SPILLAGE AND DISPOSAL PROCEDURES

Eliminate sources of ignition. Avoid inhaling any vapors. In the event of inhalation risk, wear self-contained breathing apparatus.

SMALL SPILLAGE

Absorb the material with sand or earth. Collect in a closed container and remove to a safe place for disposal by burning.

LARGE SPILLAGE

Prevent the spillage from spreading by using sand or earth.
Transfer to a sealable salvage tank and dispose of by burning.

9. TRANSPORTATION AND STORAGE

ELECTROSTATIC ACCUMULATION HAZARD

When transferring this product, there is potential for the accumulation of static electricity. Consideration should be given to bonding and grounding of equipment

during loading, unloading and transfer of this product.

USUAL SHIPPING CONTAINERS	Tank cars, tank trucks, drums
STORAGE/TRANSPORT TEMPERATURE	Ambient
STORAGE/TRANSPORT PRESSURE	Atmospheric
LOADING/UNLOADING TEMPERATURE	Ambient

10. REACTIVITY DATA

GENERAL	This product is stable and hazardous polymerization will not occur
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INCOMPATIBLE MATERIAL AND CONDITION TO AVOID	Strong oxidizing agents
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HAZARDOUS DECOPMOTIONS	None
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11. TOXICOLOGICAL INFORMATION

INHALATION	High vapor concentrations (attainable at elevated temperatures well above ambient) are irritating to the eyes and the respiratory tract, and may cause headaches, dizziness, anesthesia, drowsiness, unconsciousness, and other central nervous system effects, including death. Negligible hazard at normal temperatures
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EYE CONTACT	Slightly irritating, but will not injure eye tissue.
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SKIN CONTACT	Brief contact with the liquid will not result in significant irritation unless evaporation is prevented. Frequent or prolonged contact may irritate the skin and cause skin rash (dermatitis).
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Low toxicity. Skin contact may aggravate an existing dermatitis condition.

INGESTION Small amounts of liquid aspirated into the respiratory system during ingestion or from vomiting may cause mild to severe pulmonary injury and possibly death.
Low toxicity

Special Health Precautions

Health studies have shown that many petroleum hydrocarbons 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.

12. ECOLOGICAL INFORMATION

MARINE LIFE AND ECOLOGY

According to similar material or assumed data, this product may toxic to marine life

SOIL Due to its low solubility in water, it may be absorbed by soil.

RESIDUALITY AND SOLUBILITY

This product is rapidly biodegradable, and OECD classified it as “READILY BIODEGRADABLE”. It also rapidly degraded in atmosphere and can be eliminated through waste water plant.

13. DISPOSAL CONSIDERTATION

Product as supplied does not meet the characteristics of a hazardous waste as defined in 40 CFR 261.2124. If mixed with other products, waste mixture must be characterized. DO NOT dispose of this product in drains or storm sewers. DO NOT dispose of this product in a landfill without prior solidification. Waste product should be recycled. Consider waste brokering.

14. TRANSPORTATION INFORMATION

LAND

CLASS : 3	PG: III	UN NUMBER: 1993
HAZCHEM CODE: 3W		SUBSIDIARY RISK:
TRANSPORT DOCUMENT NAME :		
FLAMMABLE, LIQUID, N.O.S. (aliphatic hydrocarbon solvent), CLASS 3, UN 1993, PG III, (40 DegC c. c.)		

SEA – IMDG (PACKAGED GOODS AND BLCs)

CLASS: 3	PG: III	UN NUMBER: 1993
MARINE POLLUTANT: NO		EMS NUMBER: 3-07
RISK LABEL: 3		SUBSIDIARY RISK:
TRANSPORT DOCUMENT NAME:		
FLAMMABLE, LIQUID, N.O.S. (aliphatic hydrocarbon solvent), CLASS 3, UN NUMBER: 1993, PG III, (40 DegC c.c.)		

AIR (ICAO/IATA)

CLASS: 3	PG: III	UN NUMBER: 1993
PROPER SHIPPING NAME:		
FLAMMABLE, LIQUID, N.O.S. (aliphatic hydrocarbon solvent)		

15. REGULATORY CLASSIFICATION

CLASSIFICATION AND LABELING

CLASSIFICATION / SYMBOL : HARMFUL / Xn

CLASSIFICATION / SYMBOL : FLAMMABLE / NONE

GOVERNING DIRECTIVE :

Dangerous Substances Directive 67 / 548 / EC, as modified.

NATURE OF SPECIAL RISK

R10 Flammable

R65 Harmful : may cause lung damage if swallowed.

SAFETY ADVICE

S23 Do not breathe gas / fumes / vapour / spray

S24 Avoid contact with skin

S43A In case of fire use sand, earth, chemical powder or foam

S62 If swallowed, do not induce vomiting : seek medical advice
Immediately and show this container or label.

16. OTHER INFORMATION

The information contained herein relates only to this product or material and may not be valid when used in combination with any other product or material or in any process. If the product is not to be used for a purpose or under conditions which are normal or reasonably foreseeable, this information cannot be relied upon as complete or applicable. For greater certainty, uses other than those described in "Application and Use" of section 1 must be reviewed with the supplier.
