SAFETY DATA SHEET

IsoKote 1000 (Synlube 1000)

Section 1: Product and Company Identification

Product name: IsoKote 1000 (Synlube 1000)

Manufacturer:
Isotec® International, Inc.
201 Longview Street
Canton, GA 30114
Customer Service: 800-234-6300

24 Hour Emergency Telephone Numbers:
Poison Control Center (Medical): (877) 800-5553
ChemTel: United States 800-255-3924 * International 1-813-248-0585

Section 2: Hazards Identification

GHS Classifications

Health:
- Aspiration, Category 1
- Skin Irritation, Category 2
- Carcinogenicity, Category 2
- Reproductive Toxicity, Category 2
- Target Organ Toxicity, Single Exposure, Category 3
- Target Organ Toxicity, Repeated Exposure, Category 2

Physical:
- Flammable liquids, Category 2

GHS Label


Flame


Health


Exclamation mark

Signal Word: Danger.

Hazard Statements

H225: Highly flammable liquid and vapor.
H304: May be fatal if swallowed and enters airways.
H315: Causes skin irritation.
H336: May cause drowsiness or dizziness.
H351: Suspected of causing cancer.

H361: Suspected of damaging fertility or the unborn child.
H373: May cause damage to central nervous system through prolonged or repeated exposure.

Precautionary Statements

Prevention:

P202: Do not handle until all safety precautions have been read and understood.
P210: Keep away from heat, sparks, open flames, and hot surfaces. – No smoking.
P233: Keep container tightly closed.
P240: Ground or bond container and receiving equipment.
P242: Use non-sparking tools.
P243: Take action to prevent static discharges.
P260: Do not breathe mist, vapors, and spray.
P264: Wash hands thoroughly after handling.
P271: Use only outdoors or in a well-ventilated area.
P280: Wear protective gloves, protective clothing, eye protection and face protection.

Response:

P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or physician.
P331: Do NOT induce vomiting.
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P332+P313: If skin irritation occurs: Get medical attention.
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312: Call a POISON CENTER or physician if you feel unwell.
P308+P313: IF exposed or concerned: Get medical advice.

Section 3: Composition/Information on Ingredients

Component	% (weight)	Product Identifier
Hexane	90 - 95	CAS No. 110-54-3
Stoddard solvent	1.5 - 2.5	CAS No. 8052-41-3
Ethylbenzene	0.1 - 0.2	CAS No. 100-41-4

Section 4: First Aid Measures

Eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, seek medical attention.

Skin: Take off immediately all contaminated clothing. Rinse skin with water or shower. If skin irritation occurs, seek medical attention.

Ingestion: If person is conscious, wash out mouth with water. Give one or two glasses of water to drink. Never give anything by mouth to an unconscious person. Do not induce vomiting. Seek immediate medical attention.

Inhalation: Remove person to fresh air and keep comfortable for breathing. Seek medical attention if central nervous system symptoms occur.

Section 5: Firefighting Measures

Extinguishing Media: Water fog, foam, dry chemical, or carbon dioxide.

Explosion Hazards: Containers can build up pressure if exposed to heat or fire.

Fire Fighting Equipment: Exposed firefighters must wear NIOSH-approved positive pressure self-contained breathing apparatus with full-face mask and full protective clothing.

Sensitive to Static Discharge: Product can accumulate static charges which can cause an electrical spark.

Section 6: Accidental Release Measures

Personal Protection: Wear protective equipment listed in Section 8.

Small Spill: Isolate the area and prevent entry of unnecessary and unprotected personnel. Eliminate all ignition sources. Do not walk through or otherwise scatter spilled product. Ventilate the area. Absorb with dry chemical absorbent, earth, sand, or any other non-combustible inert material. Do not use combustible materials such as sawdust. Place in a chemical waste container.

Large Spill: Same procedure as for a small spill. Do not walk through or otherwise scatter spilled product. Prevent entry into waterways, sewers, basements, or confined areas.

Section 7: Handling and Storage

Handling: Do not get in eyes, on skin or on clothing. Wash hands before eating, drinking, or smoking. Do not breathe vapors or mists. Use only with adequate ventilation. Keep container closed when not in use. Do not reseal if contaminated. Keep away from heat and flame. Vapors can accumulate and travel to ignition sources distant from the handling site and flash-fire can result.

Storage: Store in tightly closed containers in cool, dry and well-ventilated area away from heat or sources of ignition. Keep out of direct sunlight.

Storage Temperature: Minimum 12.8 - 15.5 °C (55 - 60 °F)

Electrostatic Accumulation Hazard: Product can accumulate static charges which can cause an electric spark.

Section 8: Exposure Controls/Personal Protection

Exposure limits:

Component	CAS No.	OSHA/PEL	ACGIH/TLV
Hexane	110-54-3	500 ppm	50 ppm (Skin)
Stoddard solvent	8052-41-3	100 ppm	100 ppm
Ethylbenzene	100-41-4	100 ppm	20 ppm 125 ppm STEL

Engineering Controls: Local exhaust ventilation used in combination with general ventilation as necessary to control air contaminates.

Eyes and Face: Wear a face shield and chemical safety glasses or goggles.

Skin: Wear impervious gloves. Cover exposed skin.

Respiratory: For airborne exposure above the exposure limit, wear a NIOSH approved air-purifying respirator equipped with organic vapor cartridges. For situations where the atmospheric levels may exceed the level for which an air-purifying respirator is effective, use a positive-pressure air-supplying respirator.

Work Hygienic Practices: Avoid eating, drinking, or smoking while using this material. Wash hands thoroughly after handling.

Section 9: Physical and Chemical Properties

Appearance	Colorless liquid.
Odor	Mild.
Autoignition Temperature	258 °C (496 °F)
Freezing Point	Not established.
Boiling Point	63 - 69 °C (145 - 156 °F)
Flash Point (Closed Cup)	-26 °C (-15 °F)
Flammable Limits	1.2 - 7.7 vol %
Vapor Density (air = 1)	Heavier than air.
Solubility in water	Negligible.
VOC Content	95%

Section 10: Stability and Reactivity

Stability: Stable.

Hazardous Polymerization: Will not occur.

Hazardous Decomposition Products: Carbon oxides, nitrogen oxides and other products of incomplete combustion.

Incompatible Materials: Strong reducing agents and strong oxidizers.

Section 11: Toxicological Information

Acute:

Component	Oral LD_{50} (rat)	Dermal LD_{50} (rabbit)
Hexane	16000 mg/kg	> 2000 mg/kg
Stoddard solvent	> 5000 mg/kg	> 2000 mg/kg
Ethylbenzene	3500 mg/kg	15433 mg/kg

Carcinogenicity:

IARC: Ethylbenzene is Group 2B: Possibly carcinogenic to humans.
NTP: Not regulated as a carcinogen.
OSHA: Not regulated as a carcinogen.

Section 12: Ecological Information

Ecotoxicological Information: No data.
Hexane: LC_{50} (fish) 2.5 mg/l/96h; EC_{50} (Daphnia magna) 2.1 mg/l/48h

Section 13: Disposal Considerations

Disposal Method: Dispose in accordance with local, state, provincial or national regulations.

Empty Container: Product residue is retained. Do not pressurize, cut, weld, braze, solder, drill, grind or expose container to heat, flame, sparks, static electricity, or any other sources of ignition.

RCRA/EPA Waste Information: If discarded in its purchased form, this material is a RCRA hazardous waste.

General Comments: The generation of waste should be avoided or minimized whenever possible. Chemical waste, even small quantities, should never be poured into drains, sewers, or waterways.

Section 14: Transport Information

U.S. DOT: UN1993, Flammable liquids, NOS, (Hexane), 3, II
ICAO/IATA: UN1993, Flammable liquids, NOS, (Hexane), 3, II
IMO/IMDG: UN1993, Flammable liquids, NOS, (Hexane), 3, II

Section 15: Regulatory Information

United States

SARA Title III (Superfund Amendments and Reauthorization Act)

311/312 Hazard Categories: Acute, Chronic, Fire.

313 Reportable Components:

Component	CAS No.
Hexane	110-54-3

CERCLA (Comprehensive Environmental Response and Liability Act)

Component	RQ (lbs)
Hexane	5000

TSCA (Toxic Substances Control Act): All components are in TSCA inventory**.**

RCRA Status: If discarded in its purchased form, this material is a RCRA hazardous waste.

Section 16: Other Information

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Abbreviations and Acronyms:

ACGIH	American Conference of Governmental Industrial Hygienists
CAS	Chemical Abstracts Service
EC_{50}	Median effective concentration
EINECS	European Inventory of Existing Commercial Chemical Substances
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
LC_{50}	Lethal concentration to 50% of exposed laboratory animals
LD_{50}	Lethal dose to 50% of exposed laboratory animals
TWA	Time-weighted average
TLV	Threshold limit value
NIOSH	US National Institute of Occupational Safety and Health
NE	Not established
NTP	US National Toxicology Program
OEL	Occupational exposure limit
OSHA	US Occupational Safety Health Administration
PEL	Permissible exposure limit
RQ	Reportable quantity
STEL	Short term exposure limit
U.S. DOT	United States Department of Transportation