

# SAFETY DATA SHEET

## IsoKote 531 (Synlube 531)

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### Section 1: Product and Company Identification

**Product name:** IsoKote 531 (Synlube 531)

**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

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### Section 2: Hazards Identification

#### GHS Classifications

**Health:**

Aspiration, Category 1  
Skin Irritation, Category 2  
Eye Irritation, Category 2A  
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



Exclamation mark



Health

**Signal Word:** Danger.

#### Hazard Statements

H225: Highly flammable liquid and vapor.  
H304: May be fatal if swallowed and enters airways.  
H315: Causes skin irritation.  
H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

H336: May cause drowsiness or dizziness.

H361: Suspected of damaging fertility or the unborn child.

H373: May cause damage to liver, kidney or central nervous system through prolonged or repeated exposure.

### Precautionary Statements

#### Prevention:

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 or 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.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists: Get medical attention.

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P308+P313: IF exposed or concerned: Get medical advice/attention.

P314: Get medical advice if you feel unwell.

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### Section 3: Composition/Information on Ingredients

Component	% (weight)	Product Identifier
Toluene	70-80	CAS No. 108-88-3
Xylene, mixed isomers	2-6	CAS No. 1330-20-7
Methyl ethyl ketone	2-6	CAS No. 78-93-3
Petroleum distillates	2-6	CAS No. 64742-47-8
Acetone	2-6	CAS No. 67-64-1
Light solvent naphtha	≤ 2	CAS No. 64742-89-8
Solvent naphtha (petroleum), light aromatic	≤ 2	CAS No. 64742-95-6
1,2,4-Trimethylbenzenediamine	≤ 2	CAS No. 95-63-6

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## 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, get medical attention.

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

**Inhalation:** Remove person to fresh air and keep comfortable for breathing. If central nervous system symptoms develop, seek medical attention.

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## 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.

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## 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 on-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. Allow to stand loosely covered 48 hours before closing container.

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## 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
Toluene	108-88-3	100 ppm 150 ppm STEL	20 ppm
Xylene, mixed isomers	1330-20-7	100 ppm	100 ppm 150 ppm STEL
Methyl ethyl ketone	78-93-3	200 ppm 300 ppm STEL	200 ppm 300 ppm STEL
Acetone	67-64-1	1000 ppm	250 ppm 500 ppm STEL
Light solvent naphtha	64742-89-8	500 ppm	
Solvent naphtha (petroleum), light aromatic	64742-95-6	50 ppm	50 ppm
1,2,4-Trimethylbenzenediamine	95-63-6	25 ppm	25 ppm

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

**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(s), 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                      Beige to translucent liquid.  
Odor                                      Strong solvent.

Autoignition Temperature	Not established.
Freezing Point	Not established.
Boiling Point	111 °C (238 °F) - Toluene
Flash Point (Closed Cup)	7.2 °C (45 °F)
Flammable Limits	1.3 - 7 - Toluene
Vapor Density (air = 1)	Heavier than air.
Solubility in water	Insoluble.
Evaporation rate	Moderate.
Specific Gravity (water = 1)	0.85 at 25 °C (77 °F)

## Section 10: Stability and Reactivity

**Stability:** Stable.

**Hazardous Polymerization:** Will not occur.

**Hazardous Decomposition Products:** Carbon oxides, nitrogen oxides, chlorine and chlorine compounds, smoke and incompletely burned hydrocarbons.

**Incompatible Materials:** Strong bases and strong oxidizers.

## Section 11: Toxicological Information

**Acute:**

Component	Oral LD <sub>50</sub> (rat)	Dermal LD <sub>50</sub> (rabbit)	Inhalation LC <sub>50</sub> (rat)
Toluene	> 5580 mg/kg	12196 mg/kg	> 20 mg/l/4h
Xylene, mixed isomers	4300 mg/kg	2000 mg/kg	6700 ppm/4h
Acetone	5800 mg/kg	20000 g/kg	71 mg/l/4h
Light solvent naphtha	> 2000 mg/kg	> 2000 mg/kg	> 7700 ppm/4h
Solvent naphtha (petroleum), light aromatic	> 6800 mg/kg	> 3400 mg/kg	> 10.2 mg/l/4h
1,2,4-Trimethylbenzenediamine	5000 mg/kg		11 mg/l/4h

**Carcinogenicity:**

IARC: Toluene and Xylene are Group 3: Not classifiable as to its carcinogenicity to humans.

NTP: Not regulated as a carcinogen.

OSHA: Not regulated as a carcinogen.

## Section 12: Ecological Information

**Ecotoxicological Information:** No data.

## 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, (Toluene), 3, II

**ICAO/IATA:** UN1993, Flammable liquids, NOS, (Toluene), 3, II

**IMO/IMDG:** UN1993, Flammable liquids, NOS, (Toluene), 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.
Toluene	108-88-3
Xylene, mixed isomers	1330-20-7
1,2,4-Trimethylbenzenediamine	95-63-6

#### CERCLA (Comprehensive Environmental Response and Liability Act)

Component	RQ (lbs)
Toluene	1000
Xylene, mixed isomers	100
Methyl ethyl ketone	5000
Acetone	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.

**National Response Center:** Any spill or release to the environment above the RQ must be reported to the National Response Center (800-424-8802).

## Section 16: Other Information

Date Issued: August 31, 2012

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### Abbreviations and Acronyms:

ACGIH	American Conference of Governmental Industrial Hygienists
CAS	Chemical Abstracts Service
EC <sub>50</sub>	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 <sub>50</sub>	Lethal concentration to 50% of exposed laboratory animals
LD <sub>50</sub>	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