

IsoKote 531 (Synlube 531)

1. Identification

Product identifier: IsoKote 531 (Synlube 531)

Manufacturer

Isotec International, Inc.
201 Longview Street
Canton, GA 30114
Customer Service: 800-234-6300
Web: www.isotecintl.com

Emergency telephone number (24 hour)

Poison Control Center (Medical) : (800) 222-1222
ChemTel (US Transportation) : (800) 255-3924

2. Hazard identification

Classification of the substance or mixture

Health hazards:

Aspiration Hazard, Category 1
Skin Irritation, Category 2
Eye Irritation, Category 2A
Reproductive Toxicity, Category 2
Target Organ Toxicity (Single exposure), Category 2
Target Organ Toxicity (Repeated exposure), Category 2

Physical hazards:

Flammable Liquids, Category 2

Label elements



Flame



Health hazard



Exclamation mark

Signal word: DANGER

Hazard statement(s)

H225: Highly flammable liquid and vapor.
H304: May be fatal if swallowed and enters airways.
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H336: May cause drowsiness or dizziness.
H361: Suspected of damaging fertility or the unborn child.
H373: May cause damage to liver, kidney and central nervous system through prolonged or repeated exposure.

Precautionary statement(s)

Prevention:

P202: Do not handle until all safety precautions have been read and understood.
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233: Keep container tightly closed.
P240: Ground and 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.



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P264: Wash skin 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 doctor.
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 advice.
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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 advice.
P308+P313: IF exposed or concerned: Get medical advice.
P314: Get medical advice if you feel unwell.

3. Composition/information on ingredients

Chemical name	% w/w	CAS No.
Toluene	70 - 80	108-88-3
Xylene, Mixed Isomers	2 - 6	1330-20-7
Petroleum Distillates	2 - 6	64742-47-8
Methyl Ethyl Ketone	2 - 6	78-93-3
Acetone	2 - 6	67-64-1
Light Solvent Naphtha	≤ 2	64742-89-8
Aromatic Naphtha	≤ 2	64742-95-6
1,2,4-Trimethylbenzene	≤ 2	95-63-6

4. First-aid measures

Eye: Immediately flush eyes with plenty of water. Remove contact lenses, if present. Seek medical advice if irritation persists.
Skin: Immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Seek medical advice if irritation occurs.
Ingestion: If person is conscious, wash out mouth with water. Do not induce vomiting. Immediately call a poison center or doctor.
Inhalation: Move person to fresh air. Seek medical attention if symptoms of central nervous system depression occur.

5. Fire-fighting measures

Suitable extinguishing media: Water fog, foam, dry chemical and carbon dioxide.
Explosion hazards: Containers can build up pressure if exposed to heat or fire. Water contamination produces carbon dioxide gas. This may cause pressurization or explosion of containers.
Fire fighting equipment: Fire fighters must wear NIOSH-approved positive pressure self-contained breathing apparatus with full-face mask and full protective clothing.
Sensitivity to static discharge: Product can accumulate static charges which can cause an electrical spark.

6. Accidental release measures

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-



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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. Prevent entry into waterways, sewers, basements and confined areas.

7. Handling and storage

Precautions for safe handling: Do not get in eyes, on skin or on clothing. Wash hands before eating, drinking or smoking. Do not breathe vapors or mist. Use only with adequate ventilation. Keep container closed when not in use. Do not reseal if contaminated. Keep away from heat and flame.

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

Storage temperature: 15.5°C (60°F) Minimum to 37.7°C (100°F) Maximum

Electrostatic accumulation hazard: Product can accumulate static charges which can cause an electric spark.

8. Exposure controls/personal protection

Exposure controls

Chemical name	Control parameters			
	Occupational exposure limit values			
	Type		ppm	mg/m ³
Toluene	OSHA PEL	TWA	100	375
		STEL	150	560
	ACGIH TLV	TWA	20	
Xylene, Mixed Isomers	OSHA PEL	TWA	100	435
	ACGIH TLV	TWA	100	
STEL		150		
Petroleum Distillates	OSHA PEL	TWA	[1]	5 [1]
		ACGIH TLV	TWA	
Methyl Ethyl Ketone	OSHA PEL	TWA	200	590
	ACGIH TLV	TWA	200	590
STEL		300	885	
Acetone	OSHA PEL	TWA	1000	2400
	ACGIH TLV	TWA	250	
STEL		500		
1,2,4-Trimethylbenzene	ACGIH TLV	TWA	25	123

Footnotes:

1. Mist

Appropriate engineering controls: Local exhaust ventilation used in combination with general ventilation as necessary to control air contaminants.

Individual protection measures, such as personal protective equipment

Eye / face protection: Wear a face shield and chemical safety glasses or goggles.

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Skin protection - hand protection: Wear impervious gloves. Cover exposed skin.

Respiratory protection: 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.

Occupational hygiene practices: Avoid eating, drinking or smoking while using this product. Wash hands thoroughly after handling.

9. Physical and chemical properties

Physical state: Liquid

Color: Beige to translucent

Odor: Strong solvent

Freezing point: Not Established

Initial boiling point and boiling range: 111°C (238°F)

Notes: Toluene

Flash point: 7.2°C (45°F) Closed cup

Evaporation rate (n-butyl acetate = 1): Not Established

Lower explosion limit / flammability limit: 1.3

Upper explosion limit / flammability limit: 7

Explosion limit / flammability limit notes: Toluene

Relative vapor density: Heavier than air

Relative density: 0.85 (water = 1) at 25°C (77°F)

Solubility: Insoluble

Auto-ignition temperature: Not Established

10. Stability and reactivity

Dangerous polymerization: Will not occur

Chemical stability: Stable

Hazardous decomposition products: Carbon oxides, nitrogen oxides, chlorine and chlorine compounds, smoke and incompletely burned hydrocarbons

Incompatible materials: Strong bases and strong oxidizers

11. Toxicological information

Acute toxicity

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Chemical name	LD ₅₀ (oral) mg/kg(rat)	LD ₅₀ (dermal) mg/kg(rabbit)	LC ₅₀ (inhalation) mg/l
Toluene	5580 mg/kg	> 5000 mg/kg	25.7 mg/l/4h (rat)
Xylene, Mixed Isomers		1100 mg/kg	11 mg/l/4h (rat)
Petroleum Distillates	2637 mg/kg	> 3160 mg/kg	
Methyl Ethyl Ketone	2193 mg/kg	6480 mg/kg	
Acetone	5800 mg/kg	> 5000 mg/kg	76 mg/l/4h (rat)
Light Solvent Naphtha	> 5000 mg/kg	> 2000 mg/kg	
Aromatic Naphtha	> 4000 mg/kg	> 3480 mg/kg	3670 ppm/4h (rat)
1,2,4-Trimethylbenzene	6000 mg/kg	3440 mg/kg	10.2 mg/l/4h (rat)

12. Ecological information

Aquatic ecotoxicity

Chemical name	96-hour LC ₅₀	48-hour EC ₅₀
Toluene	5.5 mg/l (Oncorhynchus kisutch)	3.78 mg/l (Ceriodaphnia dubia)
Methyl Ethyl Ketone	2993 mg/l (Pimephales promelas)	308 mg/l (Daphnia magna)
Light Solvent Naphtha		4.5 mg/l (Daphnia magna)
1,2,4-Trimethylbenzene	7.72 mg/l (Pimephales promelas)	3.6 mg/l (Daphnia magna)

13. Disposal considerations

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

Empty container: Product residue is retained. Do not pressurize, cut, weld, brace, 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.

14. Transport information

USA Department of Transport Regulations (DOT)

UN proper shipping name: Flammable Liquids, NOS

Technical name: Toluene, Acetone

UN number: UN1993

Transport hazard class: 3

Packing group: II

Reportable quantity (RQ) under CERCLA: 1250 lb.

DOT other shipping information: Limited Quantity: 0.3 gallon

ICAO / IATA - Air

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UN number: UN1993

Transport hazard class: 3

Packing group: II

IMO / IMDG - International

UN proper shipping name: Flammable Liquids, NOS

Technical name: Toluene, Acetone

UN number: UN1993

Transport hazard class: 3

Packing group: II

15. Regulatory information

UNITED STATES

SARA Title III

311/312 Health hazards: Aspiration Hazard, Eye Irritation, Reproductive Toxicity, Skin Irritation, Target Organ Toxicity (Repeated exposure), Target Organ Toxicity (Single exposure)

311/312 Physical hazards: Flammable Liquids

EPCRA Section 313 Toxic Chemicals

Chemical name	% w/w	CAS No.
Toluene	70 - 80	108-88-3
Xylene, Mixed Isomers	2 - 6	1330-20-7
1,2,4-Trimethylbenzene	≤ 2	95-63-6

CERCLA Hazardous Substances and Reportable Quantities (RQ)

Chemical name	% w/w	CERCLA RQ
Toluene	70 - 80	1000 lb.
Xylene, Mixed Isomers	2 - 6	100 lb.
Methyl Ethyl Ketone	2 - 6	5000 lb.
Acetone	2 - 6	5000 lb.

TSCA (The Toxic Substances Control Act)

TSCA regulatory: All components are in TSCA inventory.

California Proposition 65

Chemical name	% w/w	Listed
Toluene	70 - 80	<ul style="list-style-type: none"> ● Cancer ● Developmental Toxicity

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

16. Other information

Approved by: Loretta Priest Title: Health and Safety Officer



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Additional SDS information:

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

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