

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Trade name Acetone

Synonyms 2-propanone, Dimethyl ketone, Ketone propane, beta-Ketopropane.

Use Industrial use, Intermediate, Paint and Coatings, Personal care, Pesticide,

Pharmaceutical, Process/Extraction Solvent, Raw material for chemical processes, Raw

material for cosmetic products, Raw material for industry, Raw material for

pharmaceuticals, Solvent

Company Sasol Chemicals (USA) LLC

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 MSDS and Product Information (8:00am-4:30pm CST)
 (281) 588-3491

Health and Safety Information (7:30am-4:00pm CST) (281) 588-3492

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SECTION 2 HAZARDS IDENTIFICATION

GHS Hazards

Flammable liquids Category 2
Eye irritation Category 2A

Specific target organ toxicity -

single exposure

Category 3 (Narcotic effects)

LABEL ELEMENTS

Hazard symbols



Signal word Danger

Hazard statements H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

Precautionary statements

Prevention P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

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P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P280 Wear protective gloves/ eye protection/ face protection.

P264 Wash skin thoroughly after handling.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P271 Use only outdoors or in a well-ventilated area.

Response P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all

contaminated clothing. Rinse skin with water/ shower.

P370 + P378 In case of fire: Use water spray, alcohol-resistant foam, dry chemical

or carbon dioxide for extinction.

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/ attention.

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing.

P312 Call a POISON CENTER or doctor/ physician if you feel unwell.

Storage P403 + P405 + P235 Store locked up in a well-ventilated place. Keep cool.

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

 Components
 CAS-No.
 Weight percent

 Acetone
 67-64-1
 99.9

See Section 8 for Exposure Guidelines and Section 15 for Regulatory Classifications.

SECTION 4 FIRST AID MEASURES

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. When symptoms persist or in all cases of doubt seek medical advice.

Wash contaminated clothing before re-use.

Inhalation Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration.

In case of shortness of breath, give oxygen. Call a physician immediately.

Ingestion If swallowed, call a poison control centre or doctor immediately. Do not induce vomiting

without medical advice. Never give anything by mouth to an unconscious person.

SECTION 5 FIREFIGHTING MEASURES

FLAMMABLE PROPERTIES

Fire/explosion Vapours may form explosive mixture with air. Flash back possible over considerable distance. Use water spray to disperse the vapors. NFPA Class IB flammable liquid.

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SAFETY DATA SHEET



Acetone

Suitable Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

extinguishing media

In the event of fire, wear self-contained breathing apparatus.

Protective equipment and precautions for

firefighters

Further information Keep containers and surroundings cool with water spray. Beware of vapours

accumulating to form explosive concentrations. Vapours can accumulate in low areas.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Methods and materials for containment and cleaning up Evacuate personnel to safe areas. Remove all sources of ignition. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Do not flush into surface water or sanitary sewer system.

SECTION 7 HANDLING AND STORAGE

Safe handling advice Ensure all equipment is electrically grounded before beginning transfer operations. Keep

away from heat and sources of ignition.

Storage/Transport

pressure

Ambient

Load/Unload temperature

Ambient

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING MEASURES

Air contaminant levels should be controlled below the PEL or TLV for this product (see Exposure Guidelines). Ensure adequate ventilation, especially in confined areas. Use explosion-proof equipment.

PERSONAL PROTECTIVE EQUIPMENT

Eyes Chemical resistant goggles must be worn., Face-shield

Skin Wear suitable protective clothing, gloves and eye/face protection.

Inhalation Respiratory protection is normally not required except in emergencies or when conditions

cause excessive airborne levels of mists or vapors. Use NIOSH approved respiratory

protection.

EXPOSURE GUIDELINES

<u>Components</u> <u>Exposure limit(s)</u>

Acetone OSHA PEL 1,000 ppm 2,400 mg/m3

ACGIH TLV (8-hour) 500 ppm

ACGIH STEL 750 ppm

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SAFETY DATA SHEET



Acetone

Permissible Exposure Limits TWA= Time Weighted Average (8 hr.) Threshold Limit Value Short Term Exposure Limit (15 min.) TLV= STEL= EL= **Excursion Limit** WEEL= Workplace Environmental Exposure Level

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance liquid;

> Colour Clear, colorless

Form liquid

Odour characteristic

Odour Threshold no data available

Flash point -17 °C, 1.4 °F;

Flammability Upper explosion limit: 13.0 %(V)

Lower explosion limit: 2.5 %(V)

Boiling point/boiling 56 °C, 133 °F;

range

Melting point/range -95.35 °C, -139.6 °F;

> **Auto-ignition** 465 °C, 869 °F; temperature

Decomposition

no data available temperature

Flammability (solid, no data available gas)

Vapour pressure 240 hPa @ 20 °C, 68 °F;

Vapour density no data available

> Density 0.79 g/cm3 @ 20 °C, 68 °F;

Specific gravity no data available

Water solubility completely miscible

> Viscosity no data available

Viscosity, dynamic 0.32 mPa.s @ 20 °C, 68 °F;

pH no data available

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SAFETY DATA SHEET



Acetone

Evaporation rate no data available

Partition coefficient: nno data available

octanol/water

Volatile organic

compounds (VOC)

content

SECTION 10 STABILITY AND REACTIVITY

100 %

Reactivity Vapours may form explosive mixture with air.

Chemical stability No decomposition if stored and applied as directed.

Conditions to avoid Extremes of temperature and direct sunlight.

Hazardous

None known.

decomposition products

Materials to avoid Oxidizing agents

Hazardous

May form explosive peroxides.

polymerisation

SECTION 11 TOXICOLOGICAL INFORMATION

Acute dermal toxicity LD50 rabbit: > 2,000 mg/kg(literature value)

Acute inhalation LC50 rat (4 hours): > 20 mg/l

> toxicity (literature value)

Acute oral toxicity LD50 rat: > 2,000 mg/kg

(literature value)

Skin (rabbit)

corrosion/irritation Moderately irritating, (literature value)

Eye damage/irritation (rabbit)

irritating, (literature value)

Respiratory or skin

sensitization

no data available

Germ cell mutagenicity Genotoxicity in vitro:

Type: Ames test

System: Salmonella typhimurium; with and without metabolic activation

Result: In vitro tests did not show mutagenic effects.

(literature value)

Genotoxicity in vivo:

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no data available

Assessment Mutagenicity:

Based on available data, the classification criteria are not met.

Reproductive toxicity Reproductive toxicity:

no data available

Assessment Reproductive toxicity:

no data available

Teratogenicity: no data available

Assessment teratogenicity:

no data available

STOT - single The substance or mixture is classified as specific target organ toxicant, single exposure,

exposure category 3 with narcotic effects.

STOT - repeated no data available exposure

Aspiration toxicity no data available

Carcinogenicity Assessment carcinogenicity:

Contains no ingredient listed as a carcinogen

SECTION 12 ECOLOGICAL INFORMATION

Toxicity to fish LC50 (Oncorhynchus mykiss (rainbow trout)) 96 hours: > 100 mg/l; static test

(literature value)

Toxicity to aquatic EC50 (Daphnia magna (Water flea)) 48 hours: > 100 mg/l; static test

invertebrates (literature value)

Toxicity to algae EC50 (Pseudokirchneriella subcapitata (green algae)) 96 hours: > 100 mg/l; static test

(literature value)

Chronic toxicity to NOEC (Daphnia magna (Water flea)) 28 d: > 100 mg/l; flow-through test

aquatic invertebrates (literature value)

Biodegradation Readily biodegradable.

OECD Test Guideline 301B (28 d): > 60 %

(literature value)

Bioaccumulation no data available

Mobility in soil no data available

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Other adverse effects no data available

SECTION 13 DISPOSAL CONSIDERATIONS

Waste Code F003 (RQ 5,000 Lbs)D001 - Ignitability (RQ 100 LB). Re-evaluation of the product may

be required by the user at the time of disposal, since the product uses, transformations,

mixtures, contamination, and spillage may change the classification.

Disposal methods Dispose of only in accordance with local, state, and federal regulations. Do not

contaminate any lakes, streams, ponds, groundwater or soil.

Empty containers. Empty containers retain product residue (liquid and/or vapor) and can be dangerous. 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. Empty drums should be completely drained, triple-rinsed, properly bunged and

promptly returned to a drum reconditioner, or properly disposed.

SECTION 14 TRANSPORT INFORMATION

DOT UN 1090, Acetone, 3, II

When shipped in quantities greater than 5,000 lbs, RQ must be added to the shipping

description.

IATA UN 1090, Acetone, 3, II

When shipped in quantities greater than 5,000 lbs, RQ must be added to the shipping

description.

IMDG UN 1090, Acetone, 3, II

When shipped in quantities greater than 5,000 lbs, RQ must be added to the shipping

description.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Remarks no data available

SECTION 15 REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

OSHA Hazards (HCS 1994)

Flammable liquid, Eye irritant

TSCA Inventory Listing

Components
Acetone

CAS-No.
67-64-1

SARA 302 Status

Components CAS-No. Weight percent

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SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 311/312 Classification

"Fire hazard", "Immediate (acute) health hazard"

SARA 313 Chemical

<u>CAS-No.</u> <u>Weight percent</u>
SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US. EPA CERCLA Hazardous Substances (40 CFR 302)

ComponentsReportable QuantityWeight percentAcetone5.000 LB99.9 %

INTERNATIONAL REGULATIONS

WHMIS Classification

Class B, Division 2: Flammable liquid.

Class D, Division 2, Subdivision B: Toxic material.

European Union

Classification according to Regulation (EU) 1272/2008.

Flammable liquids, Category 2 Eye irritation, Category 2

Specific target organ toxicity - single exposure, Category 3 (Narcotic effects)

Australia. Inventory of Chemical Substances (AICS)	Listed
Japan. Inventory of Existing and New Chemical Substances (ENCS)	Listed
Japan. Industrial Safety & Health Law (ISHL) Inventory	Listed
Canada. Domestic Substances List (DSL) Inventory	Listed
Canadian Non-Domestic Substance Listing (NDSL)	Not listed
European Inventory of Existing Commercial Chemical Substances (EINECS) Listing	Listed
Philippines. Inventory of Chemicals / Chemical Substances (PICCS)	Listed
Korea. Existing Chemicals Inventory (KECI)	Listed
China. Inventory of Existing Chemical Substances (IECSC)	Listed
Mexico. National Inventory of Chemical Substances (INSQ)	Listed
New Zealand. Inventory of Chemicals (NZIoC)	Listed
Switzerland. Inventory of Notified New Substances (CHINV)	Listed
Taiwan. National Existing Chemical Inventory (NECI)	Listed

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Please note: The names and CAS numbers which are used for this product in the stated inventories may deviate from the information which is listed in Section 3.

STATE REGULATIONS

California Prop. 65
Components
none

CAS-No.

SECTION 16 OTHER INFORMATION

HAZARD RATINGS

			Physical Hazard/
	<u>Health</u>	<u>Flammability</u>	Instability
HMIS ®	2	3	0
NFPA	2	3	0

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