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Material Safety Data Sheet

SECTION 1 Identification of the substance/mixture and of the company/undertaking

Trade name Acetone

Synonyms	Acetone, 2-Propanone, Dimethyl ketone, Ketone propane, beta-Ketopropane
Use	Industrial use
Company	Sasol Chemicals North America LLC 900 Threadneedle, Suite 10 Houston, TX 77079-2990 US

Telephone	CHEMTREC North America Transport Emergency (24-hr)	(800) 424-9300
	CHEMTREC World Wide Transport Emergency (24-hr)	(703) 527-3887
	MSDS and Product Information (8:00am-4:30pm CST)	(281) 588-3315
	Sasol LCCC Main Gate Guard	(337) 494-5142

SECTION 2 Hazards identification

Emergency Overview

Danger Highly flammable.

State of matter liquid colourless

Odour pungent

Potential environmental effects

Environmental Should not be released into the environment. Prevent further leakage or spillage if safe to do so.

Ecological information: See chapter 12

Potential health effects

Acute effects

Eyes Causes eye irritation.

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Skin Prolonged or repeated contact may dry skin and cause irritation.

Inhalation May cause respiratory tract irritation.

Ingestion Aspiration hazard if swallowed - can enter lungs and cause damage.

Toxicological information: See chapter 11

SECTION 3 Composition/information on ingredients

Components

acetone; propan-2-one; propanone

Exposure limit(s): See chapter 8 Classification and hazard labelling: See chapter 15

SECTION 4 First aid measures

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

CAS-No.

67-64-1

Weight percent

100.00

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before re-use. If skin irritation persists, call a physician.

Inhalation Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. Call a physician immediately.

Ingestion If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

SECTION 5 Fire-fighting measures

Flammability

Flash point -20 °C

Autoignition 465 °C temperature

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Explosion limits	Lower explosion limit: 2.6 %(V) Upper explosion limit: 12.8 %(V)
Fire/explosion	Flash back possible over considerable distance.
Hazardous combustion products	Carbon oxides
Suitable extinguishing media	Water spray Alcohol-resistant foam Dry chemical Carbon dioxide (CO2)
Unsuitable extinguishing media	No information available.
Protection measures and instructions	Wear self-contained breathing apparatus and protective suit.
Further information	Cool containers / tanks with water spray.

SECTION 6 Accidental release measures

Keep people away from and upwind of spill/leak. Remove all sources of ignition. Do Personal precautions not breathe vapours or spray mist. Environmental Should not be released into the environment. Prevent further leakage or spillage if precautions safe to do so. Methods for cleaning Soak up with inert absorbent material and dispose of as hazardous waste. up

Exposure controls/personal protection: See chapter 8

SECTION 7 Handling and storage

Safe handling advice	Provide sufficient air exchange and/or exhaust in work rooms. Wear personal protective equipment. Take precautionary measures against static discharge. Ensure all equipment is electrically grounded before beginning transfer operations.
Advice on protection against fire and explosion	Keep away from heat and sources of ignition.Use explosion-proof equipment.
Storage	Keen containers tightly closed in a dry cool and well-ventilated place

Keep containers tightly closed in a dry, cool and well-ventilated place. torage

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SECTION 8 Exposure controls/personal protection

Engineering measures

Provide sufficient air exchange and/or exhaust in work rooms.

Personal protective equipment

- Eyes Safety glasses with side-shields
- Skin Protective suit Safety shoes

Inhalation In case of insufficient ventilation, wear suitable respiratory equipment.

Hand protection

Hygiene measures Wash hands before breaks and immediately after handling the product.

Protective measures Wear suitable protective equipment.

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Exposure Guidelines

<u>Components</u> ACETONE	 (REL): 250 ppm (590 mg/m3) US. OSHA Table Z-1 Limits for Air exposure limit 1,000 ppm (2,400 m US. OSHA Table Z-1-A (29 CFR 1 mg/m3) US. OSHA Table Z-1-A (29 CFR 1 (2,400 mg/m3) US. California Code of Regulations Time Weighted Average (TWA) Pemg/m3) US. California Code of Regulations Ceiling Limit Value: 3,000 ppm US. California Code of Regulations Short term exposure limit 750 ppm EU. Indicative Exposure and Direct work exposure to chemical, physic 500 ppm (1,210 mg/m3) US. California Code of Regulations Short term exposure limit Value: US. NIOSH: Pocket Guide to Cherr US. OSHA Table Z-1 Limits for Air US. OSHA Table Z-1-A (29 CFR 1 US. California Code of Regulations US. Texas. Effects Screening Level Short-Term ESL: US. Texas. Effects Screening Level CS. Tennessee. OELs. Occupation average 750 ppm (1,800 mg/m3) US. Tennessee. OELs. Occupation exposure limit 1,000 ppm (2,400 m 	s Short t mical Ha Contam ng/m3) 910.100 910.100 s, Title 8 ermissibl s, Title 8 s, Titl	erm exposure limit 750 ppm zards Recommended exposure limit inants (29 CFR 1910.1000) Permissible 0) time weighted average 750 ppm (1,800 0) Short term exposure limit 1,000 ppm , Section 5155. Airborne Contaminants e Exposure Limit (PEL): 500 ppm (1,200 , Section 5155. Airborne Contaminants mg/m3) ating to the protection of risks related to biological agents. time weighted average zards inants (29 CFR 1910.1000) 0) , Section 5155. Airborne Contaminants as Commission on Environmental Quality) as Commission on Environmental Quality) as Commission on Environmental Quality) as Commission on Environmental Quality) sure Limits, Table Z1A time weighted asure Limits, Table Z1A Short term psure Limits, Table Z1A ating to the protection of risks related to biological agents.
	le Exposure Limits Limit Value Limit	TWA= STEL= WEEL=	



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SECTION 9 Physical and chemical properties

State of matter	liquid
Colour	colourless
Odour	pungent
Form	liquid
Boiling point/boiling range	56.2 °C
Flash point	-20 °C
Lower explosion limit	2.6 %(V)
Upper explosion limit	12.8 %(V)
Vapour pressure	307.974 hPa at 25 °C
Solubility(ies)	soluble
Viceocity	0.4 mm2/a
viscosity	0.4 mm2/s
Melting point/range	-95.35 °C
Density	0.79 g/cm3

SECTION 10 Stability and reactivity

Conditions to avoid	Heat, flames and sparks.
Hazardous decomposition products	Carbon oxides
Incompatible products	Strong oxidizing agents Incompatible with acids. Halogenated compounds
Hazardous reactions	Hazardous polymerisation does

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not occur.





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SECTION 11 Toxicological information

Acute oral toxicity	Acetone: LD50 rat: 5,800 mg/kg; literature value
Acute inhalation toxicity	Acetone: LC50 rat: > 20 mg/l; literature value; 4 h
Acute dermal toxicity	Acetone: LD50 rabbit: 20,000 mg/kg; literature value
Skin irritation	Acetone: rabbit: moderately irritating; (literature value)
Eye irritation	Acetone: rabbit: irritating; (literature value)
	Acetone: rabbit: moderately irritating; Draize Test

SECTION 12 Ecological information

Biodegradability	Acetone: 100 %; 5 d	
	Acetone: 89 %; 21 d	
Diagonumulation	A ootono:	

Bioaccumulation Acetone: 1

Ecotoxicity effects

Toxicity to fish	Acetone: LC50 Oncorhynchus mykiss (rainbow trout): 5,540 mg/l; 96 h; literature value
	Acetone: LC50 Lepomis macrochirus (Bluegill sunfish): 8,300 mg/l; 96 h; literature value
	Acetone: LC50 Pimephales promelas: 8,120 mg/l; 96 h; literature value
Toxicity to daphnia	Acetone: EC50 Daphnia magna: 10 mg/l; 24 h
Toxicity to algae	Acetone: EC50 Pseudokirchneriella subcapitata: > 100 mg/l; 96 h; literature value

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SECTION 13 Disposal considerations

Waste Classification US. EPA Resource Conservation and Recovery Act: (RCRA) D List of Characteristic Hazardous Wastes (40 CFR 261.21-24): D001
 Waste from residues / In accordance with local and national regulations.Do not contaminate ponds, waterways or ditches with chemical or used container. The product should not be allowed to enter drains, water courses or the soil.
 Uncleaned empty packaging Do not burn, or use a cutting torch on, the empty drum., Triple rinse containers., Can be offered for recycling, re-conditioning or puncture.

Handling and storage: See chapter 7 Exposure controls/personal protection: See chapter 8

SECTION 14 Transport information

DOT/49CFR UN 1090 Acetone, 3, II IMDG UN 1090 ACETONE, 3, II; EmS F-E, S-D ICAO/IATA UN 1090 Acetone, 3, II

SECTION 15 Regulatory information

U.S. Federal Classifications:

OSHA Hazards Flammable liquid, Mild eye irritant

SARA 311/312 Fire Hazard, Acute Health Hazard

U.S. Regulated Ingredients:

Hazard information reporting US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required Components CAS-No. US. Massachusetts Commonwealth's Right-to-Know Law (Appendix A to 105 Code of Massachusetts **Regulations Section 670.000)** Components CAS-No. Acetone 67-64-1 US. New Jersey Worker and Community Right-to-Know Act (New Jersey Statute Annotated Section 34:5A-5) Components CAS-No. Acetone 67-64-1

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US. Pennsylvania Worker and Community Right-to-Know Law (34 Pa. Code Chap. 301-323) Components CAS-No. Acetone 67-64-1 US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A) **Components** CAS-No. SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Spill reporting US. EPA CERCLA Hazardous Substances (40 CFR 302) Components Acetone

CAS-No. **Reportable Quantity** 67-64-1 5,000 lbs5,000 lbs3 mg/L60 mg/kg3 mg/kg50 mg/L100 lbs5,000 lbs1 lbs

Health US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65) Components Not listed

CAS-No.

Inventories

EU list of existing chemical substances	All chemical constituents are listed in: EU list of existing chemical substances (See chapter 3)
US TSCA Inventory	All chemical constituents are listed in: US TSCA Inventory (See chapter 3)
Australian Inv. of Chem. Substances AICS	All chemical constituents are listed in: Australian Inv. of Chem. Substances AICS (See chapter 3)
Canadian Domestic Substances List DSL	All chemical constituents are listed in: Canadian Domestic Substances List DSL (See chapter 3)
Jap. Inv. of Exist. & New Chemicals ENCS	All chemical constituents are listed in: Jap. Inv. of Exist. & New Chemicals ENCS (See chapter 3)
Korean Exist. Chemicals List ECL	All chemical constituents are listed in: Korean Exist. Chemicals List ECL (See chapter 3)
Philippines Inv. of Chem. Subst. PICCS	All chemical constituents are listed in: Philippines Inv. of Chem. Subst. PICCS (See chapter 3)
Inv. of Exist. Chem. Substances in China	All chemical constituents are listed in: Inv. of Exist. Chem. Substances in China (See chapter 3)

Other international regulations

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WHMIS Classification	B2: Flammable liquid D2B: Toxic Material Causing Othe	er Toxic Effects	
SECTION 16 Othe	er information		
Hazard Ratings			5
	<u>Health</u> Flammabilit		Reactivity Hazard
	H MIS 1 3		0
I	IFPA 1 3		0

All reasonable efforts were exercised to compile this SDS in accordance with ISO 11014 and ANSIZ400.1.1993. The SDS provides information regarding the health, safety and environmental hazards, at the date of issue, to facilitate the safe receipt, use and handling of the product in the workplace. Since Sasol and its subsidiaries cannot anticipate or control all conditions under which the product may be handled, used and received in the workplace, it remains the obligation of each user, receiver or handler to, prior to usage, review this SDS in the context within which the product will be received, handled or used in the workplace. The user, handler or receiver must ensure that the necessary mitigating measures are in place as regards health and safety. This does not substitute the need or requirement for any relevant risk assessments to be conducted. It further remains the responsibility of the receiver, handler or user to communicate such information to all relevant parties that may be involved in the receipt, use or handling of the product. Although all reasonable efforts were exercised in the compilation of this SDS, Sasol does not expressly warrant the accuracy or assume any liability for the incompleteness of the information contained herein or any advice given. The product is sold and risk passes in accordance with the specific terms and conditions of sale.

The MSDS was created by: B.SHAMASE The MSDS was approved by: Frans Shai

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