



VORTEX
PREMIUM SOLVENTS

Safety Data Sheet

Acetone

Version 1.0

Issue Date 01.10.2023

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

Product identifier

Trade name	Acetone
Synonyms	2-Propanone, methyl ketone, Ketone propane, beta-Ketopropane, Dimethyl ketone
Product code	2110
CAS-No.	67-64-1
Relevant identified uses of the substance or mixture and uses advised against	
Use	Industrial Use.
Manufacturer or supplier's details	
Company	Nyundo Trading (Pty) Ltd
Address	5A Jig Rd Montague Gardens Cape Town South Africa 7441
Telephone	+27215102679
E-mail address	info@vortexsolvents.com
Emergency telephone number	+27 (0)17 610 4444 (South Africa) 0861 555 777 RSA-Local only

SECTION 2. Hazards identification

Classification of the substance or mixture

REGULATION (EC) No 1272/2008

Classification	Flammable liquids	Category 2
	Eye irritation	Category 2
	Specific target organ toxicity - single exposure (Central nervous system)	Category 3

Label elements

REGULATION (EC) No 1272/2008



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Hazard pictograms

:



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, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

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

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage

P403 + P235 Store in a well-ventilated place. Keep cool.

Disposal

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3. Composition/information on ingredients

Substance

Acetone

Contents: ≥ 99.90 %W/W

CAS-No. 67-64-1

Index-No. 606-001-00-8

EC-No. 200-662-2

Hazard statements H225 H319 H336



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SECTION 4. First aid measures

Description of necessary first-aid measures

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

Most important symptoms/effects, acute and delayed

Refer to SECTION 11

SECTION 5. Firefighting measures

Suitable extinguishing media	Water spray. Alcohol-resistant foam. Dry chemical. Carbon dioxide.
Unsuitable extinguishing media	No information available.
Special hazards arising from the substance or mixture	Flash back possible over considerable distance. Vapours may form explosive mixtures with air.
Special protective equipment for firefighters	Wear self-contained breathing apparatus and protective suit.

SECTION 6. Accidental release measures

Personal precautions	Keep people away from and upwind of spill/leak. Remove all sources of ignition. Use non-sparking tools. Do not breathe vapours or spray mist. Ensure adequate ventilation.
Environmental precautions	Should not be released into the environment. Prevent further leakage or spillage if safe to do so. Do not allow material to contaminate ground water system. Do not flush into surface water or sanitary sewer system.
Methods for cleaning up	Soak up with inert absorbent material and dispose of as hazardous waste.
Reference to other sections	Refer to section 8 and 13



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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 discharges. Ensure all equipment is electrically grounded before beginning transfer operations.
Advice on protection against fire and explosion	Keep away from open flames, hot surfaces and sources of ignition. Use explosion-proof equipment.
Temperature class	T1
Requirements for storage areas and containers	Keep container tightly closed in a dry and well-ventilated place. Keep away from heat. Keep away from direct sunlight.
Advice on common storage	Keep containers tightly closed in a cool, well-ventilated place.

SECTION 8. Exposure controls/personal protection

Components with workplace control parameters

NATIONAL OCCUPATIONAL EXPOSURE LIMITS

Components	Type	Control parameters	Update	Basis
ACETONE	TWA	1,780 mg/m ³	1995	South Africa RELs
ACETONE	TWA	750 ppm	1995	South Africa RELs
ACETONE	STEL	3,560 mg/m ³	1995	South Africa RELs
	STEL	1,500 ppm	1995	South Africa RELs

Exposure controls

Engineering measures

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

Personal protective equipment

Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Hand protection	Gloves suitable for permanent contact: Material: butyl-rubber Break through time: 4 h Material thickness: 0.5 mm
Eye protection	Safety glasses with side-shields.
Skin and body protection	Protective suit. Safety shoes.
Hygiene measures	Wash hands before breaks and immediately after handling the product. Take off all contaminated clothing immediately.

SECTION 9. Physical and chemical properties



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Information on basic physical and chemical properties

Form	Liquid
State of matter	Liquid; at 20 °C; 1,013 hPa
Colour	Colourless
Odour	Characteristic
Odour Threshold	No data available.
pH	Not applicable.
Melting point/range	-95 °C
Boiling point/boiling range	56 °C; ASTM D86
Flash point	-20 °C; ASTM D 93 - 85; closed cup;
Evaporation rate	No data available.
Flammability (solid, gas)	No data available.
Auto-ignition temperature	No data available.
Lower explosion limit	2.5 %(V)
Upper explosion limit	14.3 %(V)
Vapour pressure	378 hPa; 30 °C
Relative vapour density	No data available.
Density	0.789 g/cm ³ ; 20 °C; ASTM D4052
Water solubility	Soluble
Viscosity, kinematic	0.4 mm ² /s; 20 °C; ASTM D 445

SECTION 10. Stability and reactivity

Reactivity	Stable under recommended storage conditions.
Chemical stability	Stable
Possibility of hazardous reactions	Hazardous polymerisation does not occur.
Conditions to avoid	Extremes of temperature and direct sunlight. Heat, flames and sparks.
Materials to avoid	Strong oxidizing agents Incompatible with acids. Halogenated compounds
Hazardous decomposition products	Carbon oxides

SECTION 11. Toxicological information

Acute oral toxicity	Acetone: LD50 Rat: > 2,000 mg/kg; (literature value)
Acute inhalation toxicity	Acetone: LC50 Rat: 4 h; vapour; > 20 mg/l; GLP: no; (literature value)
Acute dermal toxicity	Acetone: LD50 Rabbit: > 2,000 mg/kg; (literature value)
Skin irritation	Acetone: Rabbit: Irritating; GLP: no; (literature value)
Eye irritation	Acetone: Rabbit: Irritating GLP: no; (literature value)
Mutagenicity	Acetone: Ames test: Salmonella typhimurium; Not mutagenic; GLP: no; (literature value)



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SECTION 12. Ecological information

Toxicity to daphnia and other aquatic invertebrates

Acetone:
static test; Daphnia magna (Water flea); 48 h; > 100 mg/l(literature value)

Biodegradability

Acetone:
Readily biodegradable.; (literature value)

SECTION 13. Disposal considerations

Product

Disposal should be in accordance with local, regional and national legislations.

Packaging

Dispose of spent product packaging responsibly and lawfully with due consideration for health, safety and the environment.

SECTION 14. Transport information

DG Pictogram



ADR

UN number: 1090
Class: 3
Packaging group: II; F1;
Proper shipping name: ACETONE

RID

UN number: 1090
Class: 3
Packaging group: II; F1
Proper shipping name: ACETONE

ADNR

UN number: 1090
Class: 3
Packaging group: II; F1
Proper shipping name: ACETONE

IMDG

UN number: 1090
Class: 3
EmS: F-E, S-D
Packaging group: II
Proper shipping name: ACETONE
Marine pollutant: Not a Marine Pollutant

ICAO/IATA

UN number : 1090



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Class: 3
Packaging group: II
Proper shipping name: ACETONE
Transport in bulk Acetone
according to Annex II of MARPOL 73/78 and the IBC Code Pollution Category: Z

SECTION 15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

Canada. DSL - Domestic Substances List, part of CEPA	All chemical constituents are listed in: Canada. DSL - Domestic Substances List, part of CEPA (See chapter 3)
Australia. AICS - Australian Inventory of Chemical Substances	All chemical constituents are listed in: Australia. AICS - Australian Inventory of Chemical Substances (See chapter 3)
New Zealand Inventory of Chemical Substances	All chemical constituents are listed in: New Zealand Inventory of Chemical Substances (See chapter 3)
Japan. ENCS - Existing and New Chemical Substances Inventory	All chemical constituents are listed in: Japan. ENCS - Existing and New Chemical Substances Inventory (See chapter 3)
Japan. Industrial Safety and Health Law - Inventory	All chemical constituents are listed in: Japan. Industrial Safety and Health Law - Inventory (See chapter 3)
Korea. KECI - Korean Existing Chemicals Inventory	All chemical constituents are listed in: Korea. KECI - Korean Existing Chemicals Inventory (See chapter 3)
Philippines. PICCS - Philippines Inventory of Chemicals and Chemical Substances	All chemical constituents are listed in: Philippines. PICCS - Philippines Inventory of Chemicals and Chemical Substances (See chapter 3)
China. IECSC - Inventory of Existing Chemical Substances in China	All chemical constituents are listed in: China. IECSC - Inventory of Existing Chemical Substances in China (See chapter 3)
Taiwan. Chemical Substances Inventory (TCSI)	All chemical constituents are listed in: Taiwan. Chemical Substances Inventory (TCSI) (See chapter 3)
USA TSCA Inventory	All chemical constituents are listed in: USA TSCA Inventory (See chapter 3)

SECTION 16. Other information

Full text of H-Statements

H225 Highly flammable liquid and vapour.
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Every reasonable endeavor has been made to prepare this Safety Data Sheet (SDS) in adherence to the Globally Harmonized System of Classification and Labelling of Chemicals (GHS). The SDS exclusively furnishes details concerning the health, safety, and environmental risks as of the date of issuance. Its purpose is to aid in the secure reception, utilization, and handling of this product in work environments and does not supplant any product specifications or information.

As Nyundo and its affiliated entities cannot foresee or control all circumstances in which this product may be managed, used, or received in workplaces, it is the responsibility of each user, recipient, or handler to assess this SDS within the particular context in which the product will be received, managed, or used. Users, handlers, or recipients must guarantee that appropriate safety measures are established for health and safety. This does not eliminate the necessity for conducting relevant risk assessments as needed.

Furthermore, it is the responsibility of the recipient, handler, or user to communicate this information to all pertinent parties involved in the reception, use, or handling of this product. While all reasonable efforts have been made to compile this SDS, Nyundo does not explicitly guarantee the accuracy of the information contained herein or assume liability for incomplete data or any advice provided.

The transfer of risk to the purchaser occurs in accordance with the specific terms and conditions of sale when this product is sold.