

SAFETY DATA SHEET

According to
HSNO Hazardous Substances (Safety Data Sheets) Notice 2017

Section 1: Identification of the Substance/Mixture and of the Supplier

Product: **Acetone**
 Product Use: Industrial Solvent
 Restriction of Use: Refer to Section 15

Company Details: **Marketing Chemicals Ltd**
 Address: 2 Rymer Place, Mangere Bridge
 Auckland, New Zealand

Telephone: +64 9 634 3862 [8.00 am to 4.30pm – Monday to Friday]
 Fax: +64 9 634 3864

Emergency No: **+64 274 736008(24 hours)**
0800 764 766 (National Poison Centre)

Date of SDS Preparation: 6 September 2019

Section 2: Hazard Identification

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2017

EPA Approval No: **HSR001070**

Pictograms:



Flammable Irritant

Signal Word: **DANGER**

HSNO Classes	Hazard Code	Hazard Statement	GHS Category
3.1B	H225	Highly flammable liquid and vapour.	Category 2
6.1E (oral)	H303	May be harmful if swallowed.	Category 5
6.3B	H316	Causes mild skin irritation.	Category 3
6.4A	H319	Causes serious eye irritation.	Category 2A

Prevention Code	Prevention Statement
P102	Keep out of reach of children.
P103	Read label before use.
P210	Keep away from heat, sparks, open flames and hot surfaces. No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical, ventilating, and lighting.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P264	Wash hands thoroughly after handling.
P280	Wear protective clothing.

Response code	Response Statement
P101	If medical advice is needed, have product container or label at hand.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P303 + P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305 + P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P370 + P378	In case of fire: Use dry chemical powder, carbon dioxide, or alcohol foam for extinction.

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

Disposal Code	Disposal Statement
P501	Refer to Section 13.

Section 3: Composition/Information on Ingredients

Ingredients	Wt%	CAS NUMBER.
Acetone	100	67-64-1

Section 4: First Aid Measures

Routes of Exposure:

If in Eyes	Hold eyes open and rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do after the first 5 minutes. Continue rinsing for at least 15 minutes. Get medical attention if irritation persists.
If on Skin	Wash exposed area with mild soap and water. Get medical attention if irritation develops or persists.
If Swallowed	Do not induce vomiting. Wash out mouth thoroughly with water. Never give anything to the mouth of an unconscious person. If vomiting occurs, place victim face downwards, with the head turned to the side and lower than the hips to prevent vomit entering the lungs. Seek medical attention if needed.
If Inhaled	Remove person to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Apply artificial respiration if not breathing. Get medical advice if breathing becomes difficult.

Most important symptoms and effects, both acute and delayed

Symptoms:

Ingestion	May be harmful if swallowed.
Inhalation	Not applicable.
Skin	Causes mild skin irritation.
Eyes	Causes serious eye irritation.
Chronic	Not applicable.
Notes to Physician	Treat symptomatically. Potential for chemical pneumonitis. Consider gastric lavage with protected airway and administration of activated charcoal.

Section 5: Fire Fighting Measures

Hazard Type	Flammable Liquid
Flash Point	-17°C (closed cup)
Auto Ignition Point	465°C
Flammable Limits in Air % by Volume	2 to 13
Hazards from combustion products	Carbon oxides
Suitable Extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide
Precautions for firefighters and special protective clothing	Wear self-contained breathing apparatus for firefighting if necessary. Use water spray to cool unopened containers.
HAZCHEM CODE	2YE

Section 6: Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures:

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Environmental precautions:

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for containment and cleaning up:

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet brushing and place in container for disposal according to local regulations (see section 13).

Section 7: Handling and Storage

Handling:

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Read label before use. Keep away from heat, sparks, open flames and hot surfaces. No smoking. Keep container tightly closed.

Ground/bond container and receiving equipment.

Use explosion-proof electrical, ventilating, and lighting.

Use only non-sparking tools. Take precautionary measures against static discharge. Wash hands thoroughly after handling. Wear protective clothing.

Storage:

Keep out of reach of children. Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be kept upright to prevent leakage.

Store away from incompatible materials listed in Section 10.

Section 8: Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA		STEL	
	ppm	mg/m ³	ppm	mg/m ³
Acetone (bio) [67-64-1]	500	1,185	1,000	2,375

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices NOV 2017 9TH EDITION.

Personal Protection Equipment



Engineering Controls:

Use only in a well-ventilated area. A half-face filter mask suitable for organic gases and vapours (boiling point <650C) is recommended. Where respiratory protective equipment is required, use a full-face mask. Where air-filtering respirators are unsuitable (e.g. air-borne concentrations are high, risk or oxygen deficiency, confined space) use positive pressure breathing apparatus.

Eye / Face Protection:

Where there is potential for eye contact, wear a face shield, chemical goggles, and have eye flushing equipment immediately available.

Body Protection:

PVC-coated gloves. Avoid skin contact. If skin contact or contamination of clothing is likely, protective clothing should be worn.

Respiratory Protection:

Avoid breathing vapour or mist. Use NIOSH approved respiratory protection equipment appropriate to the material.

Section 9: Physical and Chemical Properties

Appearance	Liquid
Colour	Clear Colourless
Odour	Characteristic Solvent Odour
Odour Threshold	Not available
pH	Not applicable
Boiling Point	560C
Melting Point	Not available
Freezing Point	Not available
Flash Point	-170C (cup closed)
Flammability	Flammable
Upper and Lower Explosive Limits	2% to 13%
Vapour Pressure	533.3 hPa @ 39.50C ; 245.3 hPa@200C
Vapour Density	2 (air=1)
Specific Gravity	0.791 g/cm ³ @ 250C
Solubility in Water	Completely Miscible
Partition Coefficient:	Not available
Auto-ignition Temperature	4650C
Decomposition Temperature	Not available
Kinematic Viscosity	Not available
Particle Characteristics	Not applicable

Section 10: Stability and Reactivity

Stability of the Substance:

Stable under normal storage and use conditions.

Conditions to avoid:

Avoid heat, sparks, open flames and other ignition sources.

Materials to avoid:

Bases, Oxidizing agents, Reducing agents, Acetone reacts violently with phosphorous oxychloride

Hazardous Decomposition Products:

Carbon oxides

Conditions Contributing to Hazardous Polymerization

Will not occur.

Section 11: Toxicological Information

Acute Effects:

Swallowed	May be harmful if swallowed. SPECIES: Mouse ; LD50 ;VALUE: 3000 mg/kg Remarks: Behavioral:Altered sleep time (including change in righting reflex). Behavioral:Tremor. Behavioral:Headache. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.
Dermal	Not applicable.
Inhalation	Not applicable.
Eye	Causes serious eye irritation.
Skin	Causes mild skin irritation.

Chronic Effects:

Carcinogenicity	Not applicable.
Reproductive Toxicity	Not applicable.
Germ Cell Mutagenicity	Not applicable.
Aspiration	Not applicable.
STOT/SE	Not applicable.
STOT/RE	Not applicable.

Section 12: Ecotoxicological Information

This product is not hazardous to the environment.

Product:	
Persistence and degradability	Not expected to bio accumulate and is readily biodegradable. Product is mobile in soil and may contaminate groundwater. A void contamination of drains and waterways.
Bioaccumulation	No data available
Mobility in Soil	Product is soluble in water.
Other adverse effects	No data available

Section 13: Disposal Considerations

Disposal Method:

Recover and recycle product whenever possible. Dispose of waste in accordance with Regional Authority or local council bylaws.

Ensure empty containers are vented and dry. Residues may cause an explosion hazard. Do not puncture, cut or weld un-cleaned drums. Send clean dry drums to recycler or metal scrap re-claimer. Do not use empty drums for storing other products.

Precautions or methods to avoid: None known.

Section 14: Transport Information

This product is classified as a **Dangerous Good for transport in NZ ; NZS 5433:2012**



Road, Rail, Sea and Air Transport

UN No	1090
--------------	------

Product Name: Acetone
Date of SDS: 6 September 2019

Prepared by: Technical Compliance Consultants (NZ) Ltd
Tel: 64 9 475 5240 www.techcomp.co.nz

Class - Primary	3
Packing Group	II
Proper Shipping Name	ACETONE
Marine Pollutant	No
Special Provisions	If the product's individual container is below 1L, it can be transported as a non-DG as long as the product packaging is still labelled as per DG requirements and the driver is given safety information in accordance with Chapter 3.4 of the UNRTDG.
Hazchem Code	2YE

Section 15: Regulatory Information

This substance is classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2017

EPA Approval Code: HSR001070

HSNO Classification: 3.1B, 6.1E(oral), 6.3B, 6.4A

HSW (HS) Regulations 2017 and EPA Notices	Trigger Quantity
Certified Handler	Not required
Location Certificate	100L(>5L), 250L(<5L)< 50L open
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	250L (3.1B)
Emergency Response Plan	1000L (3.1B)
Secondary Containment	1000L(3.1B)
Restriction of Use – 77a	No person may use this substance described as a pesticide or a veterinary medicine. However, this substance may be used in the formulation of a pesticide or a veterinary medicine. For the purpose of this control— (a) pesticide includes, but is not limited to, a product intended for use as an acaricide, antifouling paint, avicide, fumigant, fungicide, insecticide, herbicide, miticide, molluscicide, piscicide, timber treatment preservative or vertebrate toxic agent (b) veterinary medicine has the same meaning given to it in the Agricultural Compounds and Veterinary Medicines Act 1997.

Section 16: Other Information

Glossary

EC ₅₀	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
LC ₅₀	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD ₅₀	Lethal dose to kill 50% of test animals/organisms.
LEL	Lower explosive level.
OSHA	American Occupational Safety and Health Administration.
TEL	Tolerable Exposure Limit.
TLV	Threshold Limit Value—an exposure limit set by responsible authority.

References:

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices Nov 2017 edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2012
5. HSW (Hazardous Substances) Regulations 2017

Disclaimer

Marketing Chemicals Ltd has taken care in compiling this information. No liability is accepted directly or indirectly from its application as conditions of use are outside the Company's control. End users are obliged to conform to relevant Local Government regulations.

For General Information : Marketing Chemicals Ltd,

Phone: +64 (09) 634 3862 / +64 (0)27 473 6008

Fax : +64 (09) 634 3864

Issue Date: 6 September 2019

Review Date: 6 September 2024