

SDS no. M9G0Y2HZ • Version 1.0 • Date of issue: 2024-08-15



Signal word

Warning

Hazard statement(s)

H315
H319
H335

Causes skin irritation
Causes serious eye irritation
May cause respiratory irritation

Precautionary statement(s)

P261
P264
P271
P280
P302+P352
P304+P340
P305+P351+P338

Avoid breathing dust/fume/gas/mist/vapors/spray.
Wash hands thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.
IF ON SKIN: Wash with plenty of water/soap
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Call a POISON CENTER/doctor/physician if you feel unwell.
If skin irritation occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.
Store in a well-ventilated place. Keep container tightly closed.
Store locked up.
Dispose of contents/container to an approved waste disposal facility

P312

P332+P313

P337+P313

P362+P364

P403+P233

P405

P501

SECTION 3: Composition/information on ingredients

Mixtures

Molecular weight: 112.13

Components

Component	CAS no.	Concentration
SORBIC ACID (EC no.: 203-768-7)	110-44-1	100 % (weight)
CLASSIFICATIONS: Serious eye damage/eye irritation, Cat. 2A; Skin corrosion/irritation, Cat. 2; Specific target organ toxicity following single exposure, Cat. 3. HAZARDS: H315 - Causes skin irritation; H319 - Causes serious eye irritation; H335 - May cause respiratory irritation; H336 - May cause drowsiness or dizziness.		

SECTION 4: First-aid measures

Description of necessary first-aid measures

General advice

For advice, contact a Poisons Information Centre (e.g. phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor (at once).

If inhaled

If inhaled, remove from contaminated area to fresh air immediately. Apply artificial respiration if not breathing. If breathing is difficult, give oxygen. Consult a physician.

In case of skin contact

Wash affected areas with copious quantities of water immediately. Remove

contaminated clothing and wash before re-use. If irritation occurs seek medical advice.

In case of eye contact

Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. If rapid recovery does not occur, obtain medical attention

If swallowed

Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. DO NOT INDUCE VOMITING. Seek medical advice if effects persist.

Most important symptoms/effects, acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

Indication of immediate medical attention and special treatment needed, if necessary

For advice, contact the National Poisons Information Centre (Phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.

SECTION 5: Fire-fighting measures

Suitable extinguishing media

Small fire: Use dry chemical, CO₂ or water spray. If safe to do so, move undamaged containers from the fire area.

Large fire: Use dry chemical, CO₂, foam or water spray - Do NOT use water jets.

Specific hazards arising from the chemical

Hazards from Combustion Products: May liberate toxic fumes in fire (carbon oxides).

May burn but do not ignite readily. Containers may explode when heated. When heated, vapours may form explosive mixtures with air.

Runoff may pollute waterways. Fire will produce irritating, poisonous and/or corrosive gases.

Special protective actions for fire-fighters

Wear SCBA and chemical splash suit. Fully encapsulating, gas-tight suits should be worn for maximum protection.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid inhalation, contact with skin, eyes and clothing. Avoid substance contact. Avoid generation of dusts: do not inhale dusts. Ensure supply of fresh air in enclosed rooms.

Wear protective clothing specified for normal operations (see Section 8)

Methods and materials for containment and cleaning up

Sweep up (avoid generating dust) and remove to a suitable, clearly labelled container for disposal in accordance with local regulations.

Avoid release to the environment.

SECTION 7: Handling and storage

Precautions for safe handling

Avoid generation or accumulation of dusts. Use in well ventilated areas away from all ignition sources. In case of insufficient ventilation, wear suitable respiratory equipment. Wash hands and face thoroughly after working with material.

Conditions for safe storage, including any incompatibilities

Store in a cool, dry place. Store away from oxidizing agents. Keep containers closed at all times. Keep away from light

Store in light-resistant containers.

SECTION 8: Exposure controls/personal protection

Appropriate engineering controls

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, gas, etc.) below recommended exposure limits.

Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.

Skin protection

Clean impervious clothing should be worn. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

Hand Protection: Ensure hand protection complies with AS 2161, Occupational protective gloves - Selection, use and maintenance.

Body protection

Clean clothing or protective clothing should be worn, preferably with an apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

Respiratory protection

Where ventilation is not adequate, respiratory protection may be required. Avoid breathing dust, vapours or mists. Respiratory protection should comply with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. Filter capacity and respirator type depends on exposure levels. In event of emergency or planned entry into unknown concentrations a positive pressure, full-facepiece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.

SECTION 9: Physical and chemical properties

Basic physical and chemical properties

Physical state	Solid
Appearance	White, crystalline solid.
Color	No data available.
Odor	Weak
Odor threshold	No data available.
Melting point/freezing point	134.5 °C
Boiling point or initial boiling point and boiling range	~228 °C (decomposes)
Flammability	No data available.
Lower and upper explosion limit/flammability limit	No data available.
Flash point	126 °C (OC)
Explosive properties	No data available.
Auto-ignition temperature	415 °C
Decomposition temperature	No data available.
Oxidizing properties	No data available.
pH	~3.3 (0.1%, H ₂ O, 20 °C)
Kinematic viscosity	No data available.
Solubility	Solubility in Water: Slightly soluble. Solubility in Organic Solvents: Slightly soluble in many organic solvents.
Partition coefficient n-octanol/water (log value)	No data available.
Vapor pressure	0.01 hPa (20 °C)
Evaporation rate	No data available.

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Density and/or relative density
Relative vapor density
Particle characteristics

Specific Gravity: 1.1
3.87 (air=1)
No data available.

Supplemental information regarding physical hazard classes

No data available.

Further safety characteristics (supplemental)

No data available.

SECTION 10: Stability and reactivity

Reactivity

Stable under normal conditions of storage and handling.

Chemical stability

Stable under normal use conditons although light and air sensitive.

Possibility of hazardous reactions

Hazardous Polymerization: Will not occur.

Conditions to avoid

Light, heat, incompatibles.

Incompatible materials

Strong oxidising agents, strong reducing agents and strong bases.

Hazardous decomposition products

Oxides of carbon.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Acute Toxicity - Oral: LD50 (rat): 3650 mg/kg

Ingestion: Irritating to mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract.

Inhalation: Irritating to respiratory system. Symptoms may include coughing and dyspnoea.

Skin corrosion/irritation

May cause irritation to skin.

Serious eye damage/irritation

Irritating to eyes.

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available.

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Carcinogenicity

No data available.

Reproductive toxicity

No data available.

Summary of evaluation of the CMR properties

No data available.

Specific target organ toxicity (STOT) - single exposure

May cause respiratory irritation.

Specific target organ toxicity (STOT) - repeated exposure

No data available.

Aspiration hazard

No data available.

Additional information

SORBIC ACID: LD50/LC50:

CAS# 110-44-1:

Draize test, rabbit, skin: 1 mg Severe;

Oral, mouse: LD50 = 3200 mg/kg;

Oral, rat: LD50 = 7360 mg/kg;

Application of 150 mg to skin for 1 hour in man produced severe irritation. (HSDB)

*TOXICITY:

typ. dose mode specie amount units other

LD50 ipr rat 800 mg/kg

LD50 ipr mus 2820 mg/kg

LD50 orl mus 3200 mg/kg

LD50 orl rat 7360 mg/kg

LD50 scu mus 2820 mg/kg

*AQTX/TLM96: Not available

*SAX TOXICITY EVALUATION:

THR: Moderately toxic by intraperitoneal and subcutaneous routes. Mildly toxic by ingestion. An experimental tumorigen. Experimental reproductive effects. Mutagenic data. A severe human and experimental skin irritant.

*CARCINOGENICITY:

Tumorigenic Data:

TDLo: scu-rat 1040 mg/kg/65W-I

*MUTATION DATA:

test lowest dose | test lowest dose

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Safety Data Sheet

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cyt-ham:lng 1050 mg/L | sce-ham:lng 1050 mg/L

*TERATOGENICITY:

Reproductive Effects Data:

TDLo: orl-rat 4154 gm/kg (2Y pre)

*STANDARDS, REGULATIONS & RECOMMENDATIONS:

OSHA: None

ACGIH: None

NIOSH Criteria Document: None

NFPA Hazard Rating: Health (H): None

Flammability (F): None

Reactivity (R): None

*OTHER TOXICITY DATA:

Skin and Eye Irritation Data:

skn-man 150 mg/1H SEV

skn-rbt 1 mg SEV

Status: EPA TSCA Chemical Inventory, 1986

Meets criteria for proposed OSHA Medical Records Rule

SECTION 12: Ecological information

Toxicity

Acute Toxicity - Fish: LC50 (Br. rerio): 1250 mg/l/96 h.

Acute Toxicity - Daphnia: EC50 (Daphnia): 353 mg/l/48 h.

Acute Toxicity - Bacteria: EC50 (E. coli): 1009 mg/l/1 h.

Persistence and degradability

Behaviour in environmental compartments:

log p(o/w): 1.33 (25 °C) (experimental). No appreciable bioaccumulation potential is to be expected (log P(o/w) 1-3).

SECTION 13: Disposal considerations

Disposal methods

Product disposal

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers.

Other disposal recommendations

Do not discharge this material into waterways, drains and sewers.

SECTION 14: Transport information

ADG (Road and Rail)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

SECTION 15: Regulatory information

Safety, health and environmental regulations specific for the product in question

Australia SUSMP

Poison Schedule: NS

SECTION 16: Other information

Further information/disclaimer

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Standard for the Uniform Scheduling of Medicines and Poisons, Commonwealth of Australia

National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.'

Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals', July 2020.

Safe Work Australia, 'National Guide for Classifying Hazardous Chemicals', July 2020.

Safe Work Australia, Workplace Exposure Standards for Airborne Contaminants, December 2019

Safe Work Australia, Hazardous Chemical Information System (HCIS), hcis.safeworkaustralia.gov.au

IATA, Dangerous Goods Regulations (DGR)

IMO, International Maritime Dangerous Goods Code (IMDG)