

Jaymak Australia

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SAFETY DATA SHEET

1. IDENTIFICATION AND SUPPLIER

Product Name: *Jayfresh & Jayfresh Rapid*
Use: Biocide/Odour Control/Mould Control/Bacteria Control
Supplier: Jaymak Australia Pty Ltd, 242 Grenfell Street Adelaide SA 5000 Phone: 1300 529 625
Emergency Number: Poisons Information Centre: Australia 131 126, New Zealand 0800 764 766.

2. HAZARDS IDENTIFICATION

HAZARD Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code

CLASSIFICATION: (ADG Code) for Transport by Road and Rail; **DANGEROUS GOODS.**

This material is hazardous according to Safe Work; **HAZARDOUS SUBSTANCE.**

SUSMP SCHEDULE: CAUTION

HAZARD Eye Damage – Category 1

CATEGORY: Acute Toxicity (Oral) – Category 4

Acute Toxicity (Dermal) – Category 5

Skin Corrosive – Category 1B

Specific Target Organ Toxicity (repeated exposure) – Category 2

Acute Aquatic Toxicity – Category 1

Chronic Aquatic Toxicity – Category 3

PICTOGRAMS



SIGNAL WORD

DANGER

HAZARD

H302 Harmful if swallowed

STATEMENTS

H313 May be harmful in contact with skin

H314 Causes severe burns and eye damage

H318 Causes serious eye damage

H373 May cause damage to organs, through prolonged or repeated exposure

H400 Very toxic to aquatic life

H412 Harmful to aquatic life with long lasting effects

PRECAUTIONARY STATEMENTS

GENERAL

P101 If medical advice is needed, have product container or label at hand

P102 Keep out of reach of children

P103 Read label before use

PREVENTION

P260 Do not breathe dust/fume/gas/mist/vapours/spray

P264 Wash hands thoroughly after handling

P270 Do not eat, drink or smoke when using this product

P273 Avoid release to the environment

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

RESPONSE P301+ P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P301 + P312 IF SWALLOWED: Call a POISON CENTER/doctor/physician if you feel unwell
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.
Rinse skin with water/shower
P321 Specific treatment (see First Aid Measures on Safety Data Sheet)
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing
P310 Immediately call a POISON CENTER or doctor/physician
P314 Get medical advice/attention if you feel unwell
P321 Specific treatment (see First Aid Measures on this label)
P330 Rinse mouth
P362 + P364 Take off contaminated clothing and wash it before reuse
P391 Collect spillage

STORAGE P403 + P233 Store in a well-ventilated place. Keep container tightly closed
P405 Store locked up

DISPOSAL P501 Dispose of contents/container in accordance with local/regional/national/ international regulations

NOTE: Upon exposure to moisture, this product releases CHLORINE DIOXIDE gas. Inhalation of chlorine dioxide may cause irritation, coughing, wheezing and burns of the mucous membranes. Inhalation of large amounts may lead to pulmonary edema and bronchitis. Direct contact with chlorine dioxide causes eye and skin irritation and may cause burns. Toxic by oral exposure.

CARCINOGENICITY: NTP; No IARC; No OSHA; No ACGIH; No

CHRONIC HEALTH HAZARDS: Prolonged or repeated exposure to dust may cause pulmonary problems.

AGGRAVATED MEDICAL CONDITIONS: Pulmonary disorders. Dermal ailments. Kidney disorders.

3. COMPOSITION/INFORMATION OF INGREDIENTS

INGREDIENTS:		% / Wt.	TLV/ACGIH
Sodium Chlorite	(C.A.S. # 7758-19-2)	15-24	None Established
Inorganic Salt	IN TSCA	35-45	None Established
Sodium Bisulphate	(C.A.S. # 7681-38-1)	30-40	None Established

Note: The percentage by weight ranges for the ingredients in this product and represent the approximate formulation values. (See section 3, Health Hazard Identification, for more information)

4. FIRST AID MEASURES

EYE CONTACT: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.

Hold eyelids open while flushing. Get immediate medical attention.

SKIN CONTACT: Immediately wipe off excess material from skin. Wash skin with soap and water. Remove contaminated clothing and launder before reuse. If irritation persists, get medical attention.

INHALATION: Move person to fresh air. Aid in breathing, if necessary, and get immediate medical attention.

INGESTION: Get medical attention immediately. If person is conscious and able to swallow, give large amounts of water to dilute. DO NOT INDUCE VOMITING. Never give anything by mouth to an unconscious person. If vomiting occurs, keep head below hips to prevent aspiration.

5. FIRE FIGHTING MEASURES

FLASH POINT: Not Applicable **AUTOIGNITION TEMP.:** Not determined.

LEL/UEL: Not determined. **EXTINGUISHING MEDIA:** Flooding amounts of water.

FIRE FIGHTING PROCEDURES: Positive pressure, self contained breathing apparatus. Wear full protective clothing. Apply water from a protected location or from a safe distance.

UNUSUAL FIRE OR EXPLOSION HAZARDS: May be a mild oxidizer. May increase flammability of combustible, organic or other readily oxidizable materials. Contact with moisture will produce chlorine dioxide gas. The Lower Explosive Limit (LEL) for chlorine dioxide is 10%. If large amounts of the product are involved in a fire, it is possible that the application of water mist or fog could release enough chlorine dioxide gas in a confined space to present an explosion hazard. The chlorine dioxide will dissolve harmlessly in flooding amounts of water.

6. ACCIDENTAL RELEASE MEASURES

SPILL PROCEDURE: Contain spillage. Scoop up or vacuum into a container for reclamation or reuse.

Avoid dusting. If a solution of this product is spilled, take up as much as possible and place in a suitable container for disposal in compliance with local regulations. Dilute Chlorine Dioxide solutions (100-200 ppm) do not need to be pH neutralized. Flush residual material, down drain, with an excess of water, in accordance with local regulations.

7. HANDLING AND STORAGE

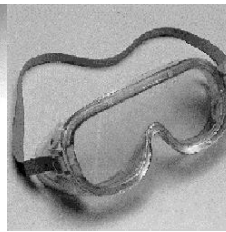
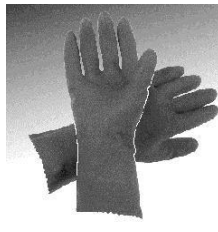
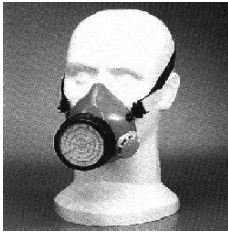
PRECAUTIONS FOR SAFE HANDLING Avoid skin and eye contact, and breathing in dust. Avoid handling which leads to dust formation. Avoid contact with water and water vapor prior to use. Wash hands thoroughly after handling.

CONDITIONS FOR SAFE STORAGE Store in a cool, dry, well ventilated place. Store away from incompatible materials described in Section 10. Protect from moisture. Store away from sources of heat or ignition.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

RESPIRATORY PROTECTION: Use approved respiratory protection if exposure limits are exceeded, or overexposure is likely. If respirator protection is used, follow all requirements for respiratory programs set forth in OSHA regulations (29 CFR 1910.134).

PERSONAL PROTECTIVE EQUIPMENT: Safety Glasses with side shields. Wear suitable gloves. Wear clean, body covering clothing.



VENTILATION: General ventilation. Local exhaust ventilation is recommended to control exposures to within applicable limits.

PEL TLV NOTES: Upon exposure to moisture, this product releases chlorine dioxide. The OSHA PEL, as well as the ACGIH TLV, for chlorine dioxide is 0.1 ppm, 0.3 ppm STEL.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: White powder

BULK DENSITY: 1.5 g/cc

SOLUBILITY IN WATER: Reacts with Water

VAPOR PRESSURE: (mm Hg) Negligible

VAPOR DENSITY (AIR = 1): Not Applicable

ODOUR: Odorless to slight chlorine odor. **pH:** 6 to 7 (0.01% solution in water)

EVAPORATION RATE: Not Applicable

BOILING POINT: Min. 120^o Max. 190^o C (Decomposes)

10. STABILITY AND REACTIVITY

STABILITY: Stable.

CONDITIONS/HAZARDS TO AVOID: Heat. Exposure to light.

INCOMPATIBILITY (Materials to Avoid): Strong acids or alkalis. Strong oxidizing agents. Reducing agents. Combustible materials.

HAZARDOUS REACTIONS: Upon exposure to water, water vapor, chlorine dioxide gas is released. **HAZARDOUS DECOMPOSITION PRODUCTS:** Chlorine. This product can decompose exothermically, releasing a large amount of heat.

POLYMERIZATION: Will not occur.

POLYMERIZATION-AVOID: None anticipated.

11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are

SYMPTOMS OF EXPOSURE

Ingestion Swallowing can result in irritation of the mouth, throat and stomach. May cause pain, nausea, vomiting and diarrhea. May cause weakness and fatigue

Eye Contact A severe eye irritant. May cause eye burns and damage

Skin Contact Contact with moist skin may cause burns. May cause toxic effects by prolonged or extensive skin contact. Causes skin irritation. Prolonged contact may cause dermatitis. Contact with a dilute chlorine dioxide solution (100 ppm), made from a similar product, was slightly irritating to rabbit skin.

Inhalation Exposure to dust particles generated from this material causes irritation of the respiratory tract. May result in burns of the mucous membranes, bronchospasms, coughing, and delayed pulmonary edema. May result in coughing, difficulty breathing and sore throat.

OTHER INFORMATION Upon exposure to moisture, this product releases CHLORINE DIOXIDE gas. Inhalation of chlorine dioxide may cause irritation, coughing, wheezing and burns of the mucous membranes. Inhalation of large amounts may lead to pulmonary edema and bronchitis. Direct contact with chlorine dioxide causes eye and skin irritation and may cause burns. Toxic by oral exposure.

ACUTE TOXICITY

No data on product, but for listed ingredients as below

Sodium Bisulphate	Oral LD ₅₀ (mouse): 5989 mg/kg
Sodium Chlorite	Oral LD ₅₀ (mouse): 350 mg/kg Inhalation LC ₅₀ (rat): 230 mg/kg 3/4H Dermal LD ₅₀ (rabbit): >2000mg/kg bw
Inorganic Salt(s)	Oral LD ₅₀ (rat): 2000mg/kg

12. ECOLOGICAL INFORMATION

ECOTOXICITY: Very toxic to fish and aquatic organisms. May cause long-term adverse effects in the aquatic environment.

AQUATIC TOXICITY: Chlorine gas will be released when moistened with water

Sodium Chlorite	Daphnia magna, 48 hour TL ₅₀ Mallard duck, dietary LC ₅₀ Fish – Bluegill fish (<i>Lepomis macrochirus</i>) Algae – <i>Desmodesmus subspicatus</i> (green algae) EC ₅₀ 96hr	0.29 mg/L 10000 ppm 231-309 mg/L/96hr 1.32mg/L
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CHRONIC TOXICITY

Sodium Chlorite	Fish Aquatic invertebrate Algae Microorganisms	Data not available Data not available Data not available Data not available
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13. DISPOSAL CONSIDERATIONS

US EPA Waste Number: D003

Local disposal laws and regulations will determine the proper waste disposal/recycling/reclamation procedure. Disposal requirements are dependent on the hazard classification and will vary by location and the type of disposal selected. All waste materials should be reviewed to determine the applicable hazards (testing may be necessary).

14. TRANSPORT INFORMATION

ROAD AND RAIL TRANSPORT

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail; **DANGEROUS GOODS**



UN Number: 2813
 UN Proper Shipping Name: Water-reactive solid, N.O.S. (Contains sodium chlorite)
 Dangerous Goods Class: 4.3
 Packing Group: II
 Hazchem Code: 4W

15. REGULATORY INFORMATION

Poison Schedule: POISON

OHS: Considered a hazard
Environmental: Considered a hazard

16. OTHER INFORMATION

Preparation Date of SDS: December 2016 valid for 5 years from this date
Information Supplied by: Manufacturer **Contact Point:**

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Disclaimer

Material Safety Data Sheets are updated frequently. Please ensure that you have a current copy. This MSDS summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including its use in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact Jaymak Australia Pty Ltd. Jaymak Australia Pty Ltd however makes no warranty whatsoever, expressed, implied or of merchantability regarding the accuracy of such data or the results to be obtained from the use thereof and assumes no responsibility for injury to buyer or third persons or for any damage to property, Buyer assumes all risks.