

MATERIAL SAFETY DATA SHEET

SJ Enterprises

FILE NO: 012

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NAME OF PRODUCT: Dr Repair

MSDS DATE:14/8/09

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Dr Repair

SYNONYMS: N/A

PRODUCT CODES: 012

MANUFACTURER: SJ ENTERPRISES PTY LTD

DIVISION: N/A

ADDRESS: FACTORY 3&4 / 63 LANGFORD STREET, POORAKA, SOUTH AUSTRALIA

EMERGENCY PHONE: +61 8 8359 8732

CHEMTREC PHONE: N/A

OTHER CALLS: +61 0 430 217 040

FAX PHONE: +61 8 8359 8732

CHEMICAL NAME: N/A

CHEMICAL FAMILY: N/A

CHEMICAL FORMULA: N/A

PRODUCT USE: Hydroponic Nutrient

PREPARED BY:

PRODUCT USE: Hydroponic Additive

PREPARED BY:

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS: Urea CH₄N₂O

Iron EDTA

<u>CAS NO.</u>	<u>% WT</u>	<u>% VOL</u>	<u>SARA 313 REPORTABLE</u>
Urea 57-13-6	0.5%(w/v)		
Iron EDTA 15708-41-5	0.5%(w/v)		
	<u>ppm</u>	<u>mg/m3</u>	
	0.5 x 10 ⁶	1.23 x 10 ⁶	
	0.5 x 10 ⁶	7.5 x 10 ⁶	

OSHA PEL-TWA: N/A

OSHA PEL STEL : N/A

OSHA PEL CEILING: N/A

ACGIH TLV-TWA: N/A

ACGIH TLV STEL: N/A

ACGIH TLV CEILING: N/A

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SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Causes moderate eye irritation, slight skin irritation and digestive tract irritation. Spray mist causes irritation to respiratory tract. High pH of product is harmful to aquatic life. Noncombustible. Spills are slippery. Reacts with acids, ammonium salts, reactive metals and some organics.

ROUTES OF ENTRY:

EYES: Causes moderate irritation to the eyes.

SKIN: Causes slight irritation to the skin.

INGESTION: Causes irritation to the gastrointestinal tract. Symptoms may include nausea, vomiting and diarrhea. May also cause headache, confusion and electrolyte depletion.

INHALATION: Causes irritation to the respiratory tract. Symptoms may include coughing, shortness of breath.

ACUTE HEALTH HAZARDS: No known chronic hazards.

CHRONIC HEALTH HAZARDS: No known chronic hazards.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: No Data found

CARCINOGENICITY

OSHA: N/A

ACGIH: N/A

NTP: N/A

IARC: N/A

OTHER: N/A

SECTION 4: FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention if irritation persists.

SKIN: Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if irritation develops.

INGESTION: Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth

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to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

INHALATION: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: Refer to MSDS

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR, UPPER: N/A
(% BY VOLUME) LOWER: N/A

FLASH POINT: N/A

F:

C:

METHOD USED: N/A

AUTOIGNITION TEMPERATURE: N/A

F:

C:

NFPA HAZARD CLASSIFICATION

HEALTH: N/A

FLAMMABILITY: N/A

REACTIVITY: N/A

OTHER: N/A

HMIS HAZARD CLASSIFICATION

HEALTH: N/A

FLAMMABILITY: N/A

REACTIVITY: N/A

PROTECTION:N/A

EXTINGUISHING MEDIA: Use any means suitable for extinguishing surrounding fire.

SPECIAL FIRE FIGHTING PROCEDURES: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Not combustible

HAZARDOUS DECOMPOSITION PRODUCTS: No data found

SECTION 6: ACCIDENTAL RELEASE MEASURES

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ACCIDENTAL RELEASE MEASURES: Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. **Spills:** Pick up and place in a suitable container for reclamation or disposal, using a method that does not generate dust.

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: To preserve product integrity, store at 25C, excursions permitted between 15C and 30C. Store in a tightly closed container. Protect container from physical damage. Isolate from incompatible substances. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: N/A

VENTILATION : A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

RESPIRATORY PROTECTION: For conditions of use where exposure to dust or mist is apparent and engineering controls are not feasible, a particulate respirator (NIOSH type N95 or better filters) may be worn. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. **WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

EYE PROTECTION: Safety glasses. Maintain eye wash fountain and quick-drench facilities in work area.

SKIN PROTECTION: Wear protective gloves and clean body-covering clothing.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: N/A

WORK HYGIENIC PRACTICES: Please refer to State And Federal regulations

EXPOSURE GUIDELINES: No exposure guidelines have been set for this product.

SECTION 8 NOTES:

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: dark brown

ODOR: Sweet smell

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PHYSICAL STATE: Liquid

pH AS SUPPLIED: 5.0 pH

pH (Other):

BOILING POINT:

F: 212

C: 100

MELTING POINT:

F: N/A

C: N/A

FREEZING POINT:

F: 32

C: 0

VAPOR PRESSURE (mm Hg):

@

F: N/A

C:

VAPOR DENSITY (AIR = 1): N/A

@

F:

C:

SPECIFIC GRAVITY (H₂O = 1): CH₄NO₂: 0.05 Iron EDTA : 0.05

@ room temperature

F: 77

C: 25

EVAPORATION RATE:

BASIS (=1):

SOLUBILITY IN WATER:

PERCENT SOLIDS BY WEIGHT:

PERCENT VOLATILE:

BY WT/ BY VOL @

F:

C:

VOLATILE ORGANIC COMPOUNDS (VOC):

WITH WATER: LBS/GAL

WITHOUT WATER: LBS/GAL

MOLECULAR WEIGHT: CH₄NO₂: 60.032 Iron EDTA : 366.941

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VISCOSITY:

@

F:

C:

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable under ordinary conditions of use and storage

CONDITIONS TO AVOID (STABILITY): Incompatibles.

INCOMPATIBILITY (MATERIAL TO AVOID): Urea reacts with calcium hypochlorite or sodium hypochlorite to form the explosive nitrogen trichloride. It is incompatible with sodium nitrite, gallium perchlorate, strong oxidizing agents (permanganate, dichromate, nitrate, chlorine), phosphorus pentachloride, nitrosyl perchlorate, titanium tetrachloride and chromyl chloride.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Urea decomposes upon heating and can form products including ammonia, oxides of nitrogen, cyanuric acid, cyanic acid, biuret, carbon dioxide.

HAZARDOUS POLYMERIZATION: No hazardous polymerization data found.

CONDITIONS TO AVOID (POLYMERIZATION): N/A

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:

Urea: Oral rat LD50: 8471 mg/kg. Investigated as a tumorigen, mutagen, reproductive effector.

Iron EDTA: Acute oral toxicity (LD50): 5000 mg/kg [Mouse].

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation:

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

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Toxicity of the Products of Biodegradation: The product itself and its products of degradation are not toxic.

Special Remarks on the Products of Biodegradation: Not available.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

RCRA HAZARD CLASS: N/A

SECTION 13 NOTES: Do not use this container for any other purpose. Triple rinse containers, then offer the container for recycling, reconditioning, or puncture top, sides and bottom and dispose of in landfill in accordance with your local government regulations.

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION Not Regulated

PROPER SHIPPING NAME:

HAZARD CLASS:

ID NUMBER:

PACKING GROUP:

LABEL STATEMENT:

WATER TRANSPORTATION Not Regulated

PROPER SHIPPING NAME:

HAZARD CLASS:

ID NUMBER:

PACKING GROUP:

LABEL STATEMENTS:

AIR TRANSPORTATION Not Regulated

PROPER SHIPPING NAME:

HAZARD CLASS:

ID NUMBER:

PACKING GROUP:

LABEL STATEMENTS:

SECTION 15: REGULATORY INFORMATION

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U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): No Data Found

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): No CERCLA Reportable Quantity has been established for this material.

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT): No Data Found

311/312 HAZARD CATEGORIES: No Data found

313 REPORTABLE INGREDIENTS: No Data found

STATE REGULATIONS: No Data found

INTERNATIONAL REGULATIONS: No Data found

SECTION 16: OTHER INFORMATION

OTHER INFORMATION: N/A

PREPARATION INFORMATION: N/A

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