

# Safety Data Sheet




## Efuzin<sup>®</sup> 400SC


Date of issue: 30th March, 2011

<b>1) Identification of Substance:</b>		
Product name:	Efuzin 400SC	
Active Ingredient(s):	Dodine 400 g/l SC.	
ACVM Approval:	P5928	
ERMA Approval:	HSR000494	
Distributed by:	Adria Crop Protection P.O. Box 535 Kumeu 1250, Auckland Ph: 09-412-9817 Fax: 09-412-9807 <a href="http://www.adriacp.co.nz">www.adriacp.co.nz</a>	
Emergency Number:	National Poisons Centre 0800 POISON 0800 764 766	
<b>2) Hazards Identification:</b>		
HSNO Classifications:	6.1D, 6.3A, 6.4A, 6.9B, 9.1A, 9.3C, 9.4C.	
Risk and safety phrases:	Causes serious eye damage. Causes skin irritation. Very toxic to aquatic life with long lasting effects.	
Environmental hazard	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.	
Primary route of exposure	Skin and eye contact.	
Symptoms relating to use:		
Inhalation	Inhalation of vapours may cause respiratory irritation. Sore throat. Chest pain. Danger of serious damage to health by exposure through inhalation.	
Skin contact	Repeated or prolonged skin contact may cause irritation. May cause skin to become dry or cracked.	
Eye contact	Redness, pain. Tears. Blurred vision. Burning sensation. Risk of serious damage to eyes.	
Ingestion	Abdominal pain, nausea. Swallowing a small quantity of this material presents some health hazard. Keep away from food, drink and animal feeding stuffs.	
<b>3) Composition Details:</b>		
Chemical identity:	Dodine	
Chemical identity of ingredients:		
Ingredient:	CAS No.:	Content (%w/v)
Dodine	2439-10-3	384 to 415 g/L

<b>4) First Aid Measures:</b>	
General Information:	
Skin contact:	For even minor contact, immediately remove contaminated clothing/wash skin thoroughly with mild soap / water. Obtain medical attention if irritation persists.
Eye contact:	In case of eye contact, immediately rinse with clean water for 10-15 minutes. Obtain emergency medical attention if pain, blinking, tears or redness persist.
Ingestion:	Rinse mouth. DO NOT INDUCE VOMITING. Seek medical attention immediately. For advice, contact the National Poisons Centre on 0800 POISON (0800 764766) or a doctor immediately.
Inhalation:	Assure fresh air breathing. Rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Obtain medical attention if breathing difficulty persists.
<b>5) Fire-Fighting Measures:</b>	
Specific hazards:	High temperature may liberate toxic gases. Carbon monoxide. Carbon dioxide. Nitrogen oxides.
Extinguishing media and methods:	Foam. Dry chemical. Carbon dioxide. Water spray.
Recommended protective clothing:	Do not enter fire area without proper protective equipment, including respiratory protection.
Special procedures	Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.
<b>6) Accidental Release Measures:</b>	
Personal precautions:	Spill should be handled by trained cleaning personnel properly equipped with respiratory and eye protection. Respiratory protection equipment may be necessary.
Environmental precautions:	Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.
Spill procedures:	Clean up any spills as soon as possible, using an absorbent material to collect it.
Disposal procedures:	Dispose of waste safely, according to local Council regulations.
<b>7) Handling &amp; Storage:</b>	
General	No naked lights. No smoking.
Precautions in handling and storage	Handle in accordance with good industrial hygiene and safety procedures.
Technical Protective Measures:	Use grounded electrical/mechanical equipment.

Handling:	Ensure prompt removal from eyes, skin and clothing. Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work.
Storage:	Provide local exhaust or general room ventilation to minimize dust and/or vapour concentrations. Keep container closed when not in use.
<b>8) Exposure Control / Personal Protection:</b>	
Industrial hygiene:	Local exhaust and general ventilation must be adequate to meet exposure standards. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Respiratory protection:	Where excessive vapour may result, wear approved mask.
Eye protection:	Chemical goggles or face shield with safety glasses.
Hand protection:	Wear suitable gloves resistant to chemical penetration.
Skin Protection:	Skin protection appropriate to the conditions of use should be provided.
General Safety & Hygiene measures:	Keep away from food, drink and animal feedstuffs. No eating, drinking or smoking during use. Wash hands and face before breaks and after work.
<b>9) Physical &amp; Chemical Properties:</b>	
Form:	Liquid
Colour:	White
Odour:	Negligible
Melting point/boiling point:	-
Density:	1.01
pH:	5.8
Flash point [°C]:	n/a
Ignition Temperature: [°C]:	430
Explosive Limits:	N/A
Viscosity:	800 cPs
Log P Octanol / water at 20°C	0.96.
<b>10) Stability &amp; Reactivity:</b>	
Physico-chemical stability	Stable under normal conditions.
Hazardous decomposition products	According to process conditions, hazardous decomposition products may be generated. Carbon monoxide. Carbon dioxide. Nitrogen oxides.
Hazardous reactions:	Avoid contact with : Strong acids. Alkalis, finely divided metals.

<b>11) Toxicological Information:</b>	
Acute toxicity:	
-Dermal	Slight irritant.
-Ocular	Risk of serious damage to eyes.
-Ingestion	Harmful if swallowed.
Rat oral LD50 [mg/kg]	> 2,000
Dermal (rat) LD50 [mg/kg]	> 2,000
Rat inhalation LC50 [mg/l/4h]	Not classified.
On ingredients	See Heading: Information on ingredients.
<b>12) Ecological Information:</b>	
Ecological effects information	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
LC50-96 Hour - fish [mg/l]	No data.
On ingredients	See Heading: Information on ingredients.
<b>13) Disposal Considerations:</b>	
Disposal: 	Triple rinse container and add residue to spray tank. Return empty container to an AgRecovery collection point for disposal.
Empty container precautions:	Avoid contamination of any water supply with chemical or empty container.
<b>14) Transportation Information:</b>	
Rail/road (RID/ADR):	UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Dodine (ISO), 40% solution), CLASS 9, PACKAGING GROUP III  
Sea (IMDG code):	UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Dodine (ISO), 40% solution), CLASS 9, PACKAGING GROUP III  

Air (ICAO/IATA):	UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Dodine (ISO), 40% solution), CLASS 9, PACKAGING GROUP III  
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### 15) Regulatory Information:

Approved handlers:	This product must be under the care of an approved handler during use.
Tracking:	No.
ACVM controls:	See <a href="http://www.nzfsa.govt.nz/acvm/">www.nzfsa.govt.nz/acvm/</a> for registration conditions.

### 16) Labelling:

Hazard Pictograms:



### 17) Other Information:

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