



SAFETY DATA SHEET

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Revision nr : 6

Date : 9/7/2004

Supersedes : 24/3/2004

DAMINE 500

CA701422

www.lisam.com



Harmful

Producer

CHIMAC-AGRI PHAR S.A.
Rue de Renory, 26
B-4102 Ougrée Belgique-Belgie
Tel. : +32 (0)4 385 97 11
In case of emergency : +32 (0)70 245 245

Responsible for distribution

CHIMAC-AGRI PHAR S.A.
Rue de Renory, 26
B-4102 Ougrée Belgique-Belgie
Tel. : +32 (0)4 385 97 11
In case of emergency : +32 (0)70 245 245

1 IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Identification of the product : 2,4-D 500 g/L ae under DMA salts, SL.
Use : Agriculture.
Type of product : Herbicide.
Company identification : See distributor.

2 COMPOSITION / INFORMATION ON INGREDIENTS

This product is considered to be hazardous and contains hazardous components.

Substance name	Value(s)	CAS No / EC No / EC Index	Symbol(s)	R-Phrase(s)
<u>2,4-D DMA salt</u>	: 50 to 55 %	002008-39-1 / ----- / 607-040-00-3	N Xn	22-41-43-51/53
<i>Log P octanol / water at 20°C</i>	: - .83			
<i>Rat oral LD50 [mg/kg]</i>	: 425 to 764			
<i>Percutaneous (rat) LD50 [mg/kg]</i>	: > 2000			
<i>Rat inhalation LC50 [mg/l/4h]</i>	: > 1.79			
<i>LC50 96h fish [mg/l]</i>	: 100			
<i>EC50 48h Daphnia magna [mg/l]</i>	: 100			
<i>IC50 72h Algae [mg/l]</i>	: 24.2			

3 HAZARDS IDENTIFICATION

- * Risk Phrases : Harmful if swallowed. Risk of serious damage to eyes.
Primary route of exposure : Vapours inhalation. Skin and eyes contact.
Symptoms relating to use
- Inhalation : Overexposure to vapours may result in headache, nausea and reduced blood pressure.
- Skin contact : Redness, pain.
- Eye contact : Redness, pain. Blurred vision. Burning sensation. Tears. Risk of serious damage.
- Ingestion : Abdominal pain, nausea. Swallowing a small quantity of this material presents some health hazard. Must not come into contact with food or be consumed.

4 FIRST AID MEASURES

- First aid
- Inhalation : Allow the victim to rest. Assure fresh air breathing. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Seek medical advice.
- Skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Seek medical attention if ill effect develops.
- Eye contact : In case of eye contact, immediately rinse with clean water for 10-15 minutes. Obtain medical attention if pain, blinking or redness persist.
- Ingestion : If swallowed seek medical advice immediately and show this container or label. Rinse mouth. Do not induce vomiting.



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5 FIRE-FIGHTING MEASURES

Prevention	: No naked lights. No smoking.
Extinguishing media	
- Suitable	: All extinguishing media can be used.
- Not to be used	: Do not use a heavy water stream.
Surrounding fires	: Use water spray or fog for cooling exposed containers.
Special exposure hazards	: When exposed to heat, may decompose liberating hazardous gases. Carbon monoxide. Carbon dioxide. Halogens. Hydrochloric acid.
Protection against fire	: 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.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions	: Spill should be handled by trained cleaning personnel properly equipped with respiratory and eye protection. Spill area may be slippery.
* Environmental precautions	: Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.
After spillage and/or leakage	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Dilute residues and flush. Recover the cleaning water for later disposal.

7 HANDLING AND STORAGE

General	: Ventilate confined spaces before enter. No naked lights. No smoking.
Precautions in handling and storage	: Avoid all unnecessary exposure.
Technical protective measures	: Proper grounding procedures to avoid static electricity should be followed.
Storage	: Store above 2°C. Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use.
Handling	: Handle in accordance with good industrial hygiene and safety procedures. 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.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protection



- Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment.
- Hand protection	: Gloves.
- Skin protection	: Wear suitable protective clothing.
- Eye protection	: Chemical goggles or safety glasses.
- Ingestion	: When using, do not eat, drink or smoke.
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.

9 PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: Liquid.
Colour	: Yellow to amber.
Odour	: Amine.
pH value (concentrated product)	: 9 to 10
Density	: 1.174 g/cm ³ , 20°C.
Solubility in water	: Complete.
Flash point [°C]	: > 79



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9 PHYSICAL AND CHEMICAL PROPERTIES (continued)

Auto-ignition temperature [°C] : 414

10 STABILITY AND REACTIVITY

Physico-chemical stability : Stable.
Hazardous decomposition products : When heated to decomposition, emits dangerous fumes. Carbon monoxide. Carbon dioxide. Halogens. Hydrochloric acid.
Hazardous reactions : None under normal conditions.
Hazardous properties : This product contains hazardous components for the environment.
Conditions to avoid : Open flame. Overheating. Strong oxidizers. Strong acids.

11 TOXICOLOGICAL INFORMATION

Acute toxicity
- Dermal : Normally considered as not dangerous for the skin. Non-sensitizer.
- Ocular : Severe eye irritant.
Rat oral LD50 [mg/kg] : 200-2000
Rabbit dermal LD50 [mg/kg] : >2000
On ingredients : See Heading : Information on ingredients.

12 ECOLOGICAL INFORMATION

LC50 96h fish [mg/l] : >240
* 48 Hour-EC50 - Daphnia magna [mg/l] : >235
* EC50 24-72h Algae [mg/l] : > 235
On ingredients : See Heading : Information on ingredients.

13 DISPOSAL CONSIDERATIONS

Disposal : Avoid release to the environment. Dispose of this material and its container at hazardous or special waste collection point. Dispose in a safe manner in accordance with local/national regulations.

14 TRANSPORT INFORMATION

General information : Ensure that vehicle's driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency.
* Land transport : Not classified.
* Sea transport : Not classified.
* Air transport : Not classified.

15 REGULATORY INFORMATION

* Symbol(s) : Harmful.
* R Phrase(s) : R22 - Harmful if swallowed.
R41 - Risk of serious damage to eyes.
* S Phrase(s) : S02 - Keep out of the reach of children.
S13 - Keep away from food, drink and animal feedingstuffs.
S20/21 - When using, do not eat, drink or smoke.
S23 - Do not breathe gas/fumes/vapour/spray.
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.
S46 - If swallowed seek medical advice immediately and show this container or label.
S51 - Use only in well-ventilated areas.



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16 OTHER INFORMATION

Further information : Revision - See : *

The contents and format of this SDS are in accordance with EEC Commission Directive 2001/58/CE

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