

MATERIAL SAFETY DATA SHEET



2,4-D AMINE 500 G/L SL

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

1.1 Identification of the substance or preparation

Product: **2,4-D AMINE 500 G/L SL**
Synonyms: ZIP (UK MAPP 14806), SALVO ;
Type: Formulated product

1.2 Use of the substance/preparation

Herbicide

1.3 Company/undertaking identification

Name: AgriChem B.V.
Address: Koopvaardijweg 9
Postal code: 4906 CV
Residence: Oosterhout
Country: the Netherlands

Telephone no: (+ + 31) (0)162 431 931
Fax no: (+ + 31) (0)162 456 797
e-Mail: info@agrichem.nl

1.4 Emergency telephone

**In case of poisoning contact national or local poison information centre
(London telephone no. 01737 6359191)**

2. HAZARDS IDENTIFICATION

R37 Irritating to respiratory system
R41 Risk of serious damage to eyes
R43 May cause sensitisation by skin contact
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

3. COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS no EINECS no	Percentage	Labeling	R phrases (1)
1: DIMETHYLAMINE, CONC=40%, AQUEOUS SOLUTIO...	124-40-3 204-697-4	15-30	F;C	11-20/22-34
2: 2,4-D	94-75-7 202-361-1	43	Xn	22-37-41-43-52/53

(1) Complete text of R/H phrases: see chapter 16

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4. FIRST AID MEASURES

After inhalation

Fresh air, rest. Half-upright sitting position. Artificial respiration may be necessary. Call an ambulance. An hospitalization is recommended.

Skin contact

Rinse skin with plenty of water or shower for at least 15 minutes. In the meantime remove contaminated clothes and shoes. Contact a doctor if symptoms appear and show the label or the packaging.

Eye contact

Rinse with plenty of water for at least 10 minutes. Flush away from the non-contaminated eye. In case of contact lenses: if these can be removed easily, remove lenses first and rinse afterwards. Consult an eye doctor immediately and show the label or the packaging.

After ingestion

Rinse the mouth and give water to drink. Contact poison information centre to see if drinking a solution of active charcoal in water is recommended.

Treatment

Pre-hospital: symptomatic treatment. Contact the Poisons information centre for further treatment in the hospital.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Water spray. Polymer foam. ABC powder. Carbon dioxide.

Unsuitable extinguishing media

High pressure water jet.

Special exposure hazards

On burning: release of toxic and corrosive gases/vapours.

Instructions

Cool tanks/drums with water spray/remove them into safety. Take account of environmentally hazardous firefighting water. Use water moderately and if possible collect or contain it.

Special protective equipment for fire-fighters

Heat/fire exposure: compressed air/oxygen apparatus.

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6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Keep away from naked flames/heat. Gloves. Safety glasses. Protective clothing.

Environmental precautions

Prevent spreading in sewers. Contain released substance, pump over in suitable containers. Dam up the solid spill.

Methods for cleaning up

Scoop spill into closing containers. Absorb with liquid-binding material (sand, sawdust, ...).

7. HANDLING AND STORAGE

7.1 Handling

Comply with the legal requirements. Do not discharge the waste into the drain.

7.2 Storage

Keep away from combustible materials, heat, sparks and open flames. Keep only in the original container. Store at a cool, dry place. Meet the legal requirements.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Exposure limit values

	comp.	ppm	comp.	mg/m3
Legal limit value TWA 8 h:	1.	5	2.	10

8.2 Exposure controls

Carry operations in the open/under local.

HAND PROTECTION

Gloves.

EYE PROTECTION

Face shield.

SKIN PROTECTION

Protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 General information

Form: Liquid (Soluble Concentrate)
Odour: strong odour
Colour: Green

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9.2 Important health, safety and environmental information

pH value:	9.03	
	8.24	1 % dilution
Flash point/flammability:	> 76 °C	
Relative density:	1.17	
Solubility:	Water	miscible
Viscosity:	16-17 mPa.s	
Surface tension:	47 mN/m	

10. STABILITY AND REACTIVITY

10.1 Conditions to avoid

Stable at normal temperature and pressure.

10.2 Materials to avoid

Avoid heat, flames, sparks and other sources of ignition oxidizing agents metals.

10.3 Hazardous decomposition products

On burning: release of toxic and corrosive gases/vapours.

11. TOXICOLOGICAL INFORMATION

LD50 oral rat:	> 2000 mg/kg
LD50 dermal rat:	> 2000 mg/kg
LD50 dermal rabbit:	
LC50 inhalation rat:	> 1.79 mg/l

Irritant to the skin. Irritant to the eyes. Irritating to the respiratory system. May cause sensitization by skin contact.

12. ECOLOGICAL INFORMATION

LC50 fish:	240 mg/l
EC50 <i>Daphnia</i> :	100 mg a.s./l
EC50 algae:	24.2 mg a.s./l
Oral toxicity bees:	94 µg a.s./bee
Dermal toxicity bees:	> 100 µg a.s./bee
Non-toxic to earthworms.	

13. DISPOSAL CONSIDERATIONS

PROVISIONS RELATING TO WASTE

Dispose of in accordance with local regulations.. Remove to an incinerator for chlorinated waste materials.

CONTAINER DISPOSAL

Packaging should be disposed of at a special chemical waste disposal facility.

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14. TRANSPORT INFORMATION

Hazard identification: 9
UN no: 3082
UN name: Road Environmentally hazardous substance, liquid, n.o.s.
Class: 9
Group: III
Marine pollutant:
EMS number:
Label :



15. REGULATORY INFORMATION



Harmful

Risk phrases:

R37 Irritating to respiratory system
R41 Risk of serious damage to eyes
R43 May cause sensitisation by skin contact
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Safety phrases:

S(2) (Keep out of reach of children)
S13 Keep away from food, drink and animal feeding stuffs
S20/21 When using do not eat, drink or smoke
S23 Do not breathe spray
S24 Avoid contact with skin
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S35 This material and its container must be disposed of in a safe way
S36/37/39 Wear suitable protective clothing gloves, and eye/face protection
S57 Use appropriate containment to avoid environmental contamination
S61 Avoid release to the environment. Refer to special instructions/safety data sheets.
- To avoid risks to man and the environment, comply with the instructions for use

Substance listed in Annex I of Directive 67/548/EEC et sequens. Included in the list of authorized active substances according to Directive 91/414/EEC. (Annex I to Directive 91/414/EEC).

16. OTHER INFORMATION

The complete text of the R phrases mentioned in chapter 3:

R11 Highly flammable

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- R20/22 Harmful by inhalation and if swallowed
- R22 Harmful if swallowed
- R34 Causes burns
- R37 Irritating to respiratory system
- R41 Risk of serious damage to eyes
- R43 May cause sensitisation by skin contact
- R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

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