

MATERIAL SAFETY DATA SHEET

NAME OF MATERIAL/PREPARATION

ALPHASAVE

Date of Preparation	19/01/2012
Date of Issue	19/01/2012
MSDS No	FORM_MSDS_R&D_054_00
Renewal Date/No	

Page No: 1/9

PREPARED BASED ON REGULATION ON PREPARATION AND DISTRIBUTION OF SAFETY DATA SHEETS ABOUT HAZARDOUS MATERIALS AND PREPARATIONS (O.G. issue no 27092 dated 26/12/2008).

1. MATERIAL/PREPARATION AND COMPANY/OWNER IDENTIFICATION:

1.1 Material/Preparation Identification:

Product Name : **ALPHASAVE**
Product Content : METHOMYL 200 g/L
Formulation Form : SL (WATER SOLUBLE CONCENTRATE)
Cas No : 16752-77-5
EC No : 240-815-0
IRAC : 1A Carbamate

1.2 Usage of the Material/Preparation:

Insecticide

1.3 Company Identification:

Manufacturing and License Holding Company:

Company Name : AGRİ SCIENCES TARIM VE İLAÇ ÜR. SAN. TİC. LTD. ŞTİ.
Address : Bekir Saydam Caddesi Pancar No: 31 Torbalı / İZMİR
Telephone : +90 0232 864 13 33
Fax : +90 0232 864 16 79

1.4 Emergency Contact Telephone:

In case of an emergency please call +90 0232 864 13 33

2. COMPOSITION AND INFORMATION ON INGREDIENTS:

Material	g/L	CAS No	EINECS/ELINCS	Hazard	R ¹	Classification
METHOMYL	200	16752-77-5	240-815-0	T ⁺ ; N	R28, R50, R53	T ⁺ ; R28, N; R50, R53
M-PYROL	<200	872-50-4	212-828-1	Xi	R36/38	Xi; R36/38
DIETILEN GLIKOL	<700	111-46-6	203-872-2	Xn	R22	Xn; R22

- ¹ R explanations are under section 16.

MATERIAL SAFETY DATA SHEET

NAME OF MATERIAL/PREPARATION

ALPHASAVE

Date of Preparation	19/01/2012
Date of Issue	19/01/2012
MSDS No	FORM_MSDS_R&D_054_00
Renewal Date/No	

Page No: 2/9

PREPARED BASED ON REGULATION ON PREPARATION AND DISTRIBUTION OF SAFETY DATA SHEETS ABOUT HAZARDOUS MATERIALS AND PREPARATIONS (O.G. issue no 27092 dated 26/12/2008).

3. HAZARD IDENTIFICATION:



T⁺: Too Toxic



N: DANGEROUS FOR THE ENVIRONMENT

R28: Too toxic if swallow.

R36/38: It irritated eyes and skin

R50: Too toxic to aquatic organisms

R53: It may cause long-term adverse effects in the aquatic environment.

4. FIRST AID MEASURES:

Antidote and First Aid: ATROPIN is the antidote. Apply doctor for 0,5 mg Atropin tablets. In doubtful poisonings, apply a doctor. If swallowed, make the patient drink 1-2 glass of water and puke by touching with finger or something else through the back part of the throat. Do not give anything to the patient or vomiting person. Keep the patient away from this site. Keep calm by laying the patient on his back. If he does not inhale, perform artificial respiratory. Do not give anything to patient though mouth. If symptoms are indicated, give 2,5 tablets (each one is 0.5 mg) ATROPIN before doctor comes. This process continues with the intervals of 10-15 minutes until drying the throat. Continue this process until the doctor comes. In case it contaminates the eye, wash with slow flowing water for 15 minutes by opening the eyelid. In case it contaminates the skin, wash with plenty of water and soap. If required, apply medical treatment.

FOR THE ATTENTION OF DOCTOR:

Poisoning Symptoms: Methomyl poisoning causes weakness, headache, blurred vision, nausea, stomach cramps, chest tightness, contraction of pupils, muscle tremor, sweating with activity of anticholinesterase.

MATERIAL SAFETY DATA SHEET

NAME OF MATERIAL/PREPARATION

ALPHASAVE

Date of Preparation	19/01/2012
Date of Issue	19/01/2012
MSDS No	FORM_MSDS_R&D_054_00
Renewal Date/No	

Page No: 3/9

PREPARED BASED ON REGULATION ON PREPARATION AND DISTRIBUTION OF SAFETY DATA SHEETS ABOUT HAZARDOUS MATERIALS AND PREPARATIONS (O.G. issue no 27092 dated 26/12/2008).

Treatment: For treatment, ATROPIN Sulphate must be used. The injection continues via vein every 10-30 minutes with the doses of 1,2-2 mg. Artificial respiratory or oxygen may be necessary. Until the patient become well, other cholinesterase inhibitors must not be used. Do not use morphine or 2-PAM. Also, 2-PAM must be used as subsidiary for ATROPIN SULPHATE to reveal the poison of Alphasave and organic phosphoric insecticides.

In any poisoning, you can call National Poison Consultancy Center (UZEM) and get more information for first aid and treatment.

5. FIRE FIGHTING MEASURES

Appropriate Extinguishing Media: It is not flammable. Extinguishing precautions must be taken for environment.

Important protective equipment in firefighting: Use independent respiratory mask if available during the fire. Wear protective clothes.

Other Information: Cool the containers with spray water.

6. ACCIDENTAL RELEASE MEASURES:

General Information: Please use the personal protection equipment defined under Section 8.

Personal Precautions: Do not touch spilled product or contaminated surfaces. Do not eat, drink or smoke while handling spilled product.

Spill Clean-up Procedure: Collect the product with a liquid retaining material (e.g. sand, sawdust, chemical binders). Place the product into tight plastic containers and keep safely until it is disposed. Contaminated materials and surfaces should be cleaned in compliance with environmental regulations

Additional Precautions: Refer to Section 7 for safe handling instructions. Refer to Section 8 for personal protections equipment. Refer to Section 13 for disposal.

MATERIAL SAFETY DATA SHEET

NAME OF MATERIAL/PREPARATION

ALPHASAVE

Date of Preparation	19/01/2012
Date of Issue	19/01/2012
MSDS No	FORM_MSDS_R&D_054_00
Renewal Date/No	

Page No: 4/9

PREPARED BASED ON REGULATION ON PREPARATION AND DISTRIBUTION OF SAFETY DATA SHEETS ABOUT HAZARDOUS MATERIALS AND PREPARATIONS (O.G. issue no 27092 dated 26/12/2008).

7. HANDLING AND STORAGE

Handling : Please use the personal protection equipment specified under Section 8. Do not eat or drink while handling the product. Avoid contact with the mouth, the skin or the eyes. Do not inhale the product. After handling the product thoroughly you're your hands. When handling closed containers no additional safety precautions other than the specified ones are needed. Only handle the product in rooms with a local suction device.

Storage : Please store the product in its original container, in a cool, dry and well-ventilated place. Keep away from food, drink and animal feed items. Protect from exposure to direct sunlight. Protect against freezing. Keep the product away from the reach of children.

Storage temperature: 0 to 30° C

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Precautions: Ensure appropriate general or local ventilation to keep the product concentration under allowed limits.

Personal Protection Equipment:

Eye Protection: Use eye protection equipment compliant with EN 166.

Skin Protection: Use protective clothing and appropriate gloves. Use 2 layers of clothing, if possible. Use CE marked Nitrile Rubber (min. 0.40 mm thick). Contaminated gloves should be washed. Any gloves that cannot be cleaned inside and outside should be disposed.

Respiratory Protection: Use respiratory apparatuses compliant with EN 149:2001. Any respiratory protection apparatus should only be used for short term operations, as a part of risk minimization measures, e.g. in case of local ventilation. Comply with operation instructions and warnings of the manufacturer during use of respiratory protection apparatuses.

Good Hygiene Conditions: Do not eat, drink or smoke while handling the product. Make sure to wash your hands each time before eating, drinking, smoking or going to the toilet.

MATERIAL SAFETY DATA SHEET

NAME OF MATERIAL/PREPARATION

ALPHASAVE

Date of Preparation	19/01/2012
Date of Issue	19/01/2012
MSDS No	FORM_MSDS_R&D_054_00
Renewal Date/No	

Page No: 5/9

PREPARED BASED ON REGULATION ON PREPARATION AND DISTRIBUTION OF SAFETY DATA SHEETS ABOUT HAZARDOUS MATERIALS AND PREPARATIONS (O.G. issue no 27092 dated 26/12/2008).

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : Liquid, clear
Color : Colorless
Odor : Strong
Density : 0,90 g/cm³ (20⁰C)
pH : 3-5 1% (20⁰C)
Flash point : Bo flash

10. ABILITY AND REACTIVITY

Conditions to avoid : Extreme temperatures and exposure to direct sunlight
Incompatibility with other materials : None
Hazardous reactions : When stored and handled appropriately no hazardous reactions are observed. The product is resistant to specified storage conditions.

11. TOXICOLOGICAL INFORMATION

Methomyl Technical Material:

Acute Oral LD₅₀ male rat 34, female rat 30 mg/kg.

Skin and eye Acute percutaneous LD₅₀ male and female rabbit >2000 mg/kg..

Inhale LC₅₀ (4 hours) rat 0,258 mg/l air (aerosol)

Toxicity Class WHO (a.i) Ib

MATERIAL SAFETY DATA SHEET

NAME OF MATERIAL/PREPARATION

ALPHASAVE

Date of Preparation	19/01/2012
Date of Issue	19/01/2012
MSDS No	FORM_MSDS_R&D_054_00
Renewal Date/No	

Page No: 6/9

PREPARED BASED ON REGULATION ON PREPARATION AND DISTRIBUTION OF SAFETY DATA SHEETS ABOUT HAZARDOUS MATERIALS AND PREPARATIONS (O.G. issue no 27092 dated 26/12/2008).

12. ECOLOGICAL INFORMATION

Methomyl Technical Material:

Birds Acute Oral LD₅₀ bobwhite (*northern bobwhite quail*)

Fish LC₅₀ (96 hours) *rainbow trout* 2.49, *bluegill sunfish* 0.63 mg/l.

Daphnia LC₅₀ (48 hours) 17 µg/l

Algae EC₅₀ (72 hours) *Selenastrum capricornutum* >100 mg/l.

Toxic for bees. LD₅₀ (oral) 0.28 µg/bee; (contact) 0.16 µg/bee.

13. DISPOSAL INFORMATION

Product : Do not dispose product waste together with household wastes. Waste residue should not be spilled into wastewater canals. Any product wastes should be disposed of in compliance with Hazardous Wastes Control Regulations.

Contaminated Materials : Empty containers should not be used for other products. Completely emptied and rinsed containers should be disposed in compliance with regulations. Non-clearable containers should be disposed of as hazardous materials.

MATERIAL SAFETY DATA SHEET

NAME OF MATERIAL/PREPARATION

ALPHASAVE

Date of Preparation	19/01/2012
Date of Issue	19/01/2012
MSDS No	FORM_MSDS_R&D_054_00
Renewal Date/No	

Page No: 7/9

PREPARED BASED ON REGULATION ON PREPARATION AND DISTRIBUTION OF SAFETY DATA SHEETS ABOUT HAZARDOUS MATERIALS AND PREPARATIONS (O.G. issue no 27092 dated 26/12/2008).

14. TRANSPORTATION INFORMATION



ADR/RID/ADNR

UN-No. : 2992

Danger Mark : 6.1

Packing Group : III

Product Type : UN No 2992 CARBAMATE, PESTICIDE, LIQUID, TOXIC (INCLUDES METHOMYL AND M-PYROL)

IMDG

UN-No. : 2992

Class : 6.1

Packing Group : III

EMS : -

Marine Pollutant : Yes

Product Type : UN No 2992 CARBAMATE, PESTICIDE, LIQUID, TOXIC (INCLUDES METHOMYL AND M-PYROL)

IATA

UN-No. : 2992

Class : 6.1

Packing Group : III

Product Type : UN No 2992 CARBAMATE, PESTICIDE, LIQUID, TOXIC (INCLUDES METHOMYL AND M-PYROL)

MATERIAL SAFETY DATA SHEET

NAME OF MATERIAL/PREPARATION

ALPHASAVE

Date of Preparation	19/01/2012
Date of Issue	19/01/2012
MSDS No	FORM_MSDS_R&D_054_00
Renewal Date/No	

Page No: 8/9

PREPARED BASED ON REGULATION ON PREPARATION AND DISTRIBUTION OF SAFETY DATA SHEETS ABOUT HAZARDOUS MATERIALS AND PREPARATIONS (O.G. issue no 27092 dated 26/12/2008).

15. REGULATORY INFORMATION

This data sheet is prepared based on regulation on preparation and distribution of safety data sheets about hazardous materials and preparations (O.G. issue no 27092 dated 26/12/2008).

Hazard Marks and Symbols:



T⁺: Too toxic



N: DANGEROUS FOR THE ENVIRONMENT

Hazardous Materials Listed on the Label

Includes Methomyl and M-Pyrol

Risk Phrases:

Physicochemical : -

Health :

R28: If swallowed, it is too toxic

R36/38: It irritates eyes and skin.

Environment : -

R50: Too toxic to aquatic organisms

R53: It may cause long-term adverse effects in the aquatic environment.

Safety Phrases:

S1/2 : Lock it up and keep out of the reach of children.

S13 : Keep away from food, drink and feedstuff

S20 : Do not eat or drink while using.

S25 : Avoid contacting with eye.

S26 : In case of contact with eye, wash with plenty of water at once.

S28 : In case of contact with skin, wash with plenty of water at once.

S29 : Do not empty into drains.

MATERIAL SAFETY DATA SHEET

NAME OF MATERIAL/PREPARATION

ALPHASAVE

Date of Preparation	19/01/2012
Date of Issue	19/01/2012
MSDS No	FORM_MSDS_R&D_054_00
Renewal Date/No	

Page No: 9/9

PREPARED BASED ON REGULATION ON PREPARATION AND DISTRIBUTION OF SAFETY DATA SHEETS ABOUT HAZARDOUS MATERIALS AND PREPARATIONS (O.G. issue no 27092 dated 26/12/2008).

- S35 : Dispose of this material and container safely.
S 36/37/39 : Wear suitable protective clothing, gloves and eye/face protection
S45 : In case of accident, apply a doctor if you do not feel well. (show the label if available)
S:46 : If swallowed, seek medical advice immediately and show this container or label.
S56 : Dispose of this material and its container at hazardous or special waste collection point.
S64 : In case of swallow, wash the mouth with water (If the patient is conscious)
P11 : It can be used by professional users.

Important Labeling:

Follow instructions to avoid personal and environmental risks.

Additional Information:

Toxicity Class WHO (a.i) Ib

16. OTHER INFORMATION

T⁺: Too toxic

N: Harmful for environment

All Risk Phrases under Section 2:

R28: If swallowed, it is too toxic

R36/38: It irritates eyes and skin.

R50: Too toxic to aquatic organisms

R53: It may cause long-term adverse effects in the aquatic environment

This material safety data sheet is provided as a supplement to instructions of manufacturer; however it does not replace instructions of manufacturer. The information provided in this sheet only conforms to the regulatory criteria known at the time of the preparation of Safety Data Sheet. Required data are gathered in accord with "Regulation on Preparation and Distribution of Safety Data Sheets about Hazardous Materials and preparations (O.G. issue no 27092 dated 26/12/2008)". Concerned organizations and persons are invited to comply with the abovementioned regulation.