

MATERIAL SAFETY DATA SHEET

NAME OF MATERIAL/PREPARATION

TROY

Date of Preparation	13/07/2015
Date of Issue	13/07/2015
MSDS No	FORM_MSDS_R&D_190_00
Renewal Date/No	

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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 : **TROY**
Product Content : METAM SODYUM 500 G/L
Formulation Form : SL (WATER-SOLUBLE CONCENTRATE)

EC : 205-293-0
CAS : 137-42-8
HRAC : Z

1.2 Usage of the Material/Preparation:

FUMIGANT

1.3 Company Identification:

Manufacturing and License Holding Company:

Company Name : AGRI SCIENCES TARIM VE ILAC UR. SAN. TIC. LTD. STI.
Address : Bekir Saydam Caddesi Pancar No: 31 Torbali / IZMIR
Telephone : +90 0232 864 13 33
Fax : +900232 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
Metam sodyum	500	137-42-8	205-293-0	Xn, C, N	R22, R31, R34, R43, R50,R53	R22, C; R34, R43, N: R50, R53
Diğerleri	Outside classification due to absence of hazardous material.					

- ¹ R explanations are under section 16.

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3. HAZARD IDENTIFICATION:



C: Corrosive



N: Dangerous for the environment

R22 - Harmful if swallowed.

R34 - Causes burns.

R43 - May cause sensitization by skin contact.

R50 - Very toxic to aquatic organisms.

R53 - May cause long-term adverse effects in the aquatic environment.

4. FIRST AID MEASURES:

Poison symptoms: Headache, drowsiness, weakness, blackout and fever.

First Aid Measures: Call a doctor in case of poisoning. Take package and label of the pesticide with you. Take the patient away from the contaminated place. Take off the contaminated clothes. In case of contaminating the skin and eye, wash the body part with plenty of water and soap.

Antidote and Treatment: There is no special antidote. Symptomatic treatment is applied.

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5. FIRE FIGHTING MEASURES

Appropriate Extinguisher Materials: The product is not flammable. The extinguishing precautions must be taken for environment flames.

Protective equipment in firefighting: Use air-independent respiratory mask during fire if possible. Wear protective gloves.

Other Details: Get cool the containers, possible to cause harm, with sprayed 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.

Clean-up Methods: The poured material is collected with a liquid catcher material (for instance; sucking sand, sawdust, chemical binder). 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.

7. HANDLING AND STORAGE

Handling :Please use the personal protection equipment specified under Section 8. Do not eat or drink while using. Prevent the contact with mouth, skin and eyes. Do not inhale. Wash your hands after using. Other security precautions are not required except of stated warnings during using the closed package. Use only in rooms, in which there is a local sucking device.

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Storage : Keeping original package in cool, dry and well ventilated places. Keep away from food and animal feed items. Keep away from direct sunlight. Keep against freezing. Keep it in places that children cannot reach.

Storage temperature 0-30 °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 : Use eye protection equipment compliant with EN 166.

Skin : 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 : 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.

Hygiene Measures: Do not eat, drink or smoke while handling the product. Wash your hands each time before eating, drinking, smoking or going to the toilet.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Form : Liquid, clear
Color : Yellow-orange
pH : 6-11 10% (20⁰C)

10. STABILITY AND REACTIVITY

Conditions to be avoided : Extreme degrees and direct sun light
Materials to be avoided : None
Dangerous reaction : There is no dangerous reaction in appropriate storage and usage. It is resistant in mentioned storage conditions.

11. TOXICOLOGICAL INFORMATION

Metam Sodium Technical Material:

Oral Acute oral LD50 for rats 896, mice 285 mg/kg. Acute oral LD50 for rats of the methyl isothiocyanate formed in soil is 97 mg/kg.

Skin and eye Acute percutaneous LD50 for rabbits 1300 mg/kg. Mild irritant to eyes; corrosive to skin. Any contact with skin or organs should be treated as a burn.

Inhalation LC50 (4 h) for rats >2.5 mg/l air (whole body); in 65 exposure-days trial on rats (6 h/d, 5 d/w), NOEL 0.045 mg/l air.

NOEL (90 d) for dogs 1 mg/kg b.w.; (2 y) for mice 1.6 mg/kg b.w. (EPA Tracking).

ADI/RfD (BfR) 0.001 mg/kg b.w. [2006]; (EPA) 0.01 mg/kg b.w. [1994].

Other No toxic effect on reproduction; did not show carcinogenic effects in animal experiments.

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12. ECOLOGICAL INFORMATION

Metam Sodium Technical Material:

Birds Acute oral LD50 for bobwhite quail 500 mg/kg. Dietary LC50 (5 d) for mallard ducks and Japanese quail >5000 mg/kg diet.

Fish LC50 0.1–100 mg/l, depending on species and test conditions. LC50 (96 h) for guppies 4.2, bluegill sunfish 0.39, rainbow trout 35.2 mg/l.

Daphnia EC50 (48 h) 2.3 mg/l.

Algae EC50 (72 h) 0.56 mg/l.

Bees Non-toxic to bees when used as directed.

13. DISPOSAL INFORMATION

Product : Do not dispose it 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.

14. TRANSPORTATION INFORMATION

It is not in dangerous material class from the point of transport

ADR/RID/ADNR

UN-No. : UN 3266

Hazard Mark : 8

Packing Group : II

Product type : UN 3266 CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.
(CONTAINS METAM SODIUM)

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IMDG

UN-No. : UN 3266

Class : 8

Packing Group : II

EMS : -

Product Type : UN 3266 CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.
(CONTAINS METAM SODIUM)

IATA

UN-No. : UN 3266

Class : 8

Packing Group :II

Product Type : UN 3266 CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.
(CONTAINS METAM SODIUM)

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:



C:Corrosive



N: Dangerous for the environment

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Hazardous Materials Listed on the Label

Includes Metam Sodium

Risk Phrases:

Physicochemical : -

Health :

R22 - Harmful if swallowed.

R34 - Causes burns.

R43 - May cause sensitization by skin contact.

Environment :

R50 - Very toxic to aquatic organisms.

R53 - May cause long-term adverse effects in the aquatic environment.

Safety Phrases:

S(1/2) :Keep locked up and out of the reach of children

S13 :Keep away from food, drink and animal feedingstuffs

S24 :Avoid contact with skin

S25 :Avoid contact with eyes

S26 :In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S27 :Take off immediately all contaminated clothing

S28 :After contact with skin, wash immediately with plenty of ... (to be specified by the manufacturer)

S29 :Do not empty into drains

S36/37/39 :Wear suitable protective clothing, gloves and eye/face protection

S45 :In case of accident or if you feel unwell seek medical advice immediately

(show the label where possible)

S46 :If swallowed, seek medical advice immediately and show this container or label

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S56 :Dispose of this material and its container at hazardous or special waste collection point

S64 :If swallowed, rinse mouth with water (only if the person is conscious)

Important Labeling:

Follow instructions to avoid personal and environmental risks

16. OTHER INFORMATION

Xn: Harmful

C:Corrosive

N: Dangerous for Environment

All Risk Phrases under Section 2:

R22:Harmful in case of swallowed.

R31 - Contact with acids liberates toxic gas.

R34 - Causes burns.

R43: Make sensitive in case of contact with skin.

R50 - Very toxic to aquatic organisms.

R53 - May cause long-term adverse effects in the aquatic environment.

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Prepared By Remzican KARAN

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.