

MATERIAL SAFETY DATA SHEET

NAME OF MATERIAL/PREPARATION

KOAN

Date of Preparation	08/03/2016
Date of Issue	08/03/2016
MSDS No	FORM_MSDS_R&D_282_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 : KOAN
Product Content : PHOSPHOROUS ACID 600 g/L
Formulation Form : SL (WATER-SOLUBLE CONCENTRATE)

PHOSPHOROUS ACID

Cas No : 13598-36-2
FRAC Class : 33, U phosphonate

1.2 Usage of the Material/Preparation:

FUNGICIDE

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: 45 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
Phosphorous Acid	40	13598-36-2	237-066-7	Xn, C	R22, R35	Xn; R22, C; R35
Diğerleri*	-					

- ¹ R explanations are under section 16.

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3. HAZARD IDENTIFICATION:



Xn: Harmful



C: Corrosive

R22: Harmful if swallowed

R35: Causes severe burns

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. If swallowed, puke the patient with salty water.

Antidote and Treatment: There is nospecific antidote. The treatment is applied according to the symptoms.

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.

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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.

Storage : Keep in 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.

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.

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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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : Liquid, clear
Color : Colorless
Odor : Poor Characteristic
Density : $1,50 \pm 0,05 \text{ g/cm}^3$ (20°C)
pH : 5-7 10% (20°C)

10. STABILITY AND REACTIVITY

Conditions to be avoided : Extreme degrees and direct sun light
Materials to be avoided : Strong acids and alkaline
Dangerous reaction : There is no dangerous reaction in appropriate storage and usage. It is resistant in mentioned storage conditions.

11. TOXICOLOGICAL INFORMATION

Phosphorous Acid Technical Material:

Acute Oral LD₅₀Rat2000-2900 mg/kg
ADI/RfD 2.9 mg/kg b.w.

Toxicity Class WHO (a.i.) U; EPA (formulasyon) III

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12. ECOLOGICAL INFORMATION

Phosphorous Acid Technical Material:

Fish LC₅₀ > 100 mg/l.

Daphnia Slightly Toxic

Bee Not toxic.

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. :-

Hazard Mark :-

Packing Group :-

Product type :-

IMDG

UN-No. :-

Class :-

Packing Group :-

EMS :-

Marine Pollutant :-

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Product Type :-
IATA
UN-No. :-
Class :-
Packing Group :-
Product Type :-

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:



Xn: Harmful



C: Corrosive

Hazardous Materials Listed on the Label

Includes Phosphorous Acid.

Risk Phrases:

Physicochemical :-

Health :

R22: Harmful if swallowed

R35: Causes severe burns

Environment :-

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Safety Phrases:

- S1/2: Keep locked up and out of the reach of children
- S13: Keep away from food, drink and animal foodstuffs
- S24/25: Avoid contact with skin and eyes
- S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
- S27/28: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of ... (to be specified by the manufacturer)
- S 36/37/39: 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
- S64: If swallowed, rinse mouth with water (only if the person is conscious)

Important Labeling:

Follow instructions to avoid personal and environmental risks.

Additional Information:

ToxicityClass: WHO (a.i.) U, EPA Formulation IV.

16. OTHER INFORMATION

Xn: Harmful

C: Corrosive

All Risk Phrases under Section 2:

R22: Harmful in case of swallowed.

R35: Causes severe burns

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Prepared By : Beril TEMREN

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.