

MATERIAL SAFETY DATA SHEET (MSDS)

1. IDENTIFICATION of THE PREPARATION AND of the COMPANY

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PHONE FOR YOUR INQUIRIES : 0 216 593 22 05 (pbx) Fax: 0 216 593 22 04
PHONE AT ACCIDENT : 0 216 593 22 05
WHEN POISONED : 114 Poison Center ANKARA

Product Name : **NATUREX 3 GF**
(Only For Public Health Use)

2. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous compositions
Permethrin 200 g/L ;R CAS no: 52645-53-1
Tetramethrin 50 g/L ;R CAS no: 7696-12-0
Piperonyl Butoxide 200 g/L ;R CAS no: 51-03-6
Solvent plus inert ingredients Balance

3. HAZARDS IDENTIFICATION

Harmful if swallowed.

It is expected to be poisoned to aquatic lives.

4. FIRST AID MEASURES

Never give liquid to a person showing signs of being unconscious or spasm.

Swallow

Do not induce vomiting. Immediately contact doctor and/or move to emergency service. Current doctor should decide whether or not the patient should be swallowed.

Eye contact

Immediately flush eyes with a copious amount of water for at least 15 minutes. Obtain medical attention immediately if irritation persists.

Skin contact

Flush skin Immediately with a copious amount of water and soap. Take off contaminated clothing. Wash contaminated clothes before reuse.

Notes to physician

There is no specific antidote. Treatment should be performed by doctor according to symptoms. May cause giddiness, breath shortness, salivation, diarrhea, pupil shrinking, muscle spasm, etc. Do not induce vomiting definitely if poisoned.

5. FIRE FIGHTING MEASURES

Extinguishing materials

Water mist or thin spray. Carbon dioxide. Dry extinguishing material.

Hazardous materials resulting from fire.

Hydrogen chloride. Sulphur oxides. Nitrogen oxides depending on the density of fire.

Protecting fire fighters.

Wear protective cloth and use breathing device with an independent source of air.

Additional Information

Make cool the containers around fire by water spray. Limit the water coming from fire to prevent it enter into water and drainage systems.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Wear adequate safety cloth and wear protective eye/face protection.

Environmental Precautions

Do not allow product reaching waste pipes or waterways. Call the organization responsible from water if entered into waste water or drainage systems.

Methods for cleaning up

Absorb with materials such as sand or absorber materials and put them into containers to remove. Do not store food products, beverage or tobacco products in storage areas. Prevent the processes like eat, drink, smoke and apply cosmetic products if exposure to material is possible. Wash thoroughly after use.

7. HANDLING AND STORAGE

Keep material in a well-ventilated, reliable place where children and animals can not access them. Do not store food products, beverage or tobacco products in the storage. Prevent the activities like eating, drinking, smoking and applying cosmetic products if there is any possibility of exposure for the material. Wash thoroughly after use.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Technical measures

It is required to be sufficient a good general ventilation for most cases. Special air suction device may be required for some local events.

Respiratory protection

Respiratory protection may not be required for most cases. But use approved air cleaner inspirator when exceeded exposure limits and/or when ailment levels are exceeded.

Hand/skin protection

There may be no other measure other than clean clothing covering body and water resistant glove for short time contacts.

For emergency events: Wear protective cloth resistant to this substance. Suitable substance selection must be dependent on process.

Eye/face protection

Wear protective goggles. It is advised to wear protective goggle against the chemicals for the potential to contact with liquid.

9. PHYSICAL AND CHEMICAL PROPERTIES

View	: Liquid
Colour	: Orange
Relative Density (water=1)	: 1.02 (20° C)
Solubility	: Can convert into emulsion
Flash point	: 48 C

10. STABILITY AND REACTIVITY

Chemical stability

Stable under normal storage conditions.

Materials to avoid

Keep away from excessive high or low temperatures.

Substances to avoid

Strong basic, acidic or oxidizing substances.

Hazardous Degradation Materials

None under normal storage and use conditions.

11. TOXICOLOGIC INFORMATION

Swallow

Oral LD₅₀ > 2.330 mg/kg for rats

Irritation may potentially be occur when absorbed by the skin to a hazardous level if exposed once for a long time.

Sensitization

It may be sensitizer effects to be found on guinea skin.

Contact with eye

Irritation may be seen if contact with eye.

Breath

The effects like negative and irritation are to be expected when suitable application is made and required measures are to be taken.

Other information

12. ECOLOGICAL INFORMATION

The evaluation is based on mostly and completely to data for the composition material.

Persistence and degradability

It is not absorbed by soil hence soaking into ground waters is not possible.
 Half-life on the soil is 10 days depending on type of soil and conditions. (WHO)

Ecotoxicity

Expected to be poisoned to aquatic organism.
 (LC50/EC50/IC50 is less than 1 mg/L)

Other information

Toxic for bees.

13. DISPOSAL CONSIDERATIONS

It is estimated to be very toxic to aquatic organisms.
 Do not allow the product reaching backwater, water ways, water courses, chemicals or empty containers.
 Wash completely. Containers and washing waters should be disposed of securely. Recommended way is to send to preparatives or approved furnaces for licenced reuse. Containers should not be used for any purpose.

14. TRANSPORT INFORMATION

Road,Rail&Barge

Proper shipping name: ENVIROMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
 (Contains Permethrin %20 Tetramethrin %5 P.B.O. %20W/V)

Truck-ADR loaded:	Empty:	Label:
Rail-RID loaded:	Empty:	Label:

Filling % Packed:
 Filling % Bulk:
 Filling Kg/L (Gas) :
 UN Number:

Kemler Code:

Tremcard Nr. Other: -

Barge- ADNR Loaded:	Empty :	Label:
Ship Type:	CATG.:	

Sea

Proper shipping name: ENVIROMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
 (Contains Permethrin %20 Tetramethrin %5 P.B.O. %20W/V)

Sea – IMO/IMDG Class: 3	UN Nr: UN2319	Label:
Packing group:III	Ems : -	MFAG:

IMO Status : UN2319, TERPENE HYDROCARBONS, N.O.S., (D-LIMONENE, PERMETHRIN), 3, PGIII, MARINE POLLUTANT

Air

Proper Shipping name: ENVIROMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
 (Contains Permethrin %20 Tetramethrin %5 P.B.O. %20 W/V)

Air – ICAO/IATA Class :	UN Nr:	Label :
Sub Class:		

Packing Group :	III	Pack Instr. Passenger:
		Pack. Instr. Cargo:

15. REGULATORY INFORMATION

RISK PHRASE AND EXPLANATION

Xn; R 20/22: Harmful by inhalation and if swallowed.

N; R 50: Very toxic to aquatic organisms.

R 53: May cause long-term adverse effects in the aquatic environment.

SAFETY PHRASE AND EXPLANATION

S2: Keep out of the reach of children.

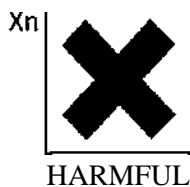
S 13: Keep away from food, drink and animal feeding stuffs.

S 24: Avoid contact with skin.

S 36/37/39: Wear suitable protective clothing, gloves and eye/face protection.

S 60: This material and its container must be disposed of as hazardous waste.

S 61: Avoid release to the environment. Refer to special instructions/safety data sheet.



16. OTHER INFORMATION

Technical information contained in this document is provided within the context of our knowledge. However, there is no guarantee relating to properties directly or indirectly.