

SAFETY DATA SHEET

STARANE

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

Product Name: FLUROXYPYR 200 EC
Chemical name of active ingredients (4-amino-3,5 dichloro-6-fluoro-2-pyridiny) oylacetic acid methyl heptyl ester
Manufacturer Agan Chemical Manufacturers Ltd.
 Northern Industrial Zone,
 P O Box 262, Ashdod, Israel.
Emergency telephone Number +972-8-8515211

2. COMPOSITION / INFORMATION OF INGREDIENTS

Substance / preparation		Preparation			
<u>Information on hazardous ingredients*</u>					
Common name	CAS No	%	EC Number	Symbol	R-Phrases
Fluroxypyr-meptyl	81406-37-3	28-31	279-752-9	-	-
Aromatic C-9 solvent	64742-95-6	60-65	265-199-0	Xn	R10-20-36/37/38

*Occupational Exposure Limit(s), if available, are listed in section 8

3. HAZARDS IDENTIFICATION

Most important hazards Flammable. Harmful by inhalation. Irritating to Eyes, respiratory system and skin. May cause Sensitization by skin contact. Harmful to aquatic Organismus.

4. FIRST AID MEASURES

Effects and symptoms

Skin contact Irritating to skin
Eye contact Irritating to eyes

First aid measures	Remove victim from area of exposure. Wash off remaining material with plenty of water.
Inhalation	Remove victim to fresh air. If breathing is difficult: artificial respiration. Get medical attention.
Ingestion	Wash out mouth with plenty of water. Get medical attention. Never give anything by mouth to an unconscious person.
Skin contact	Remove contaminated clothing. Wash away remainder with water and soap.
Eye contact	Wash out with plenty of water with the eyelid held wide open for at least 15 minutes. Get medical attention.
Notes to a physician	There is no specific antidote. Treat symptomatically and give supportive therapy.
Protection of first aiders	Use appropriate protection (see section 8)

5. FIRE FIGHTING MEASURES

Extinguishing media	
Suitable	Dry chemical, water spray, foam, carbon dioxide.
Unusual fire/explosion	Flashback may occur along vapor trail.
Hazards	
Hazardous thermal composition products	Chloride compounds, Fluoride compounds and (de) nitrogen oxides.
Protection of fire fighters	Self contained breathing apparatus and total protection required in enclosed areas.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear suitable protective clothing.
Environmental precautions	Do not discharge into drains or the environment.
Methods for cleaning up	Keep away from: open flame, sparks and heat. Absorb remainder in sand or other inert material. Dispose of in an authorized waste collecting point.

7. HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Ventilation Required. Keep away from: sparks, open flame And direct sunlight.
Storage	Keep only in the original container. Keep in a cool, Dry, well ventilated place away from direct sunlight.

Packaging materials

Suitable

Multy-layer high sensity polyethylene extrusion blow containers. Resin-lined metal drums.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures

Ventilation required.

Hygiene measures

when handling do not eat, drink or smoke. Wash hands thoroughly after handling. Wash clothing separately before re-use.

Occupational Exposure

Limits

Common Name

Fluroxypyr-meptyl

Not established

Common name

Aromatic C-9 solvent (Naphta)

TLV (USA)

25ppm

Personal protective

Equipment

Respiratory system

Respiratory protection is not required if good Ventilation is maintained.

Skin and body

Wear suitable protective clothing. Chemical Resistant boots.

Hands

Chemical resistant gloves.

Eyes

Safety goggles or face shield.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state

Liquid

Color

Tan

Odor

Aromatic (solvent)

Boiling point

155 – 181°C (Naphta)

Density

0.98 ± 0.02 g/ml @ 20°C

Vapor pressure

1.35 x 10³mPa @ 20°C (Fluroxypyr-meptyl)

Solubility in water

0.9 ppm @ 20°C (Fluroxypyr-meptyl)

91 ppm @ 20°C (Fluroxypyr)

Octanol/water partition

log = 4.5 (Fluroxypyr-meptyl)

Coefficient

pH

5 – 7

Cipac, mt 75

Flash point

46°C

Flammability

Flammable

Autoignition temperature

450°C (Naphta)

Explosion properties	Naphta (vapors) – May form explosive mixture with air
Lower explosion limit	0,8 volume %
Upper explosion limit	7 volume %
Oxidation properties	Not oxidizing

10. STABILITY AND REACTIVITY

Stability	Not subject to polymerization
Materials to avoid	Oxidizing agents, acids and alkali
Hazardous reactions	
Hazardous decomposition Products	Chloride compounds, Fluoride compounds and nitrogen oxides.

11. TOXICOLOGICAL INFORMATION

Preparation

Acute toxicity – Oral	LD 50 (rat) > 2,000 mg/kg
Acute toxicity – Dermal	LD 50 (rat) > 4,000 mg/kg
Acute toxicity – inhalation	LD 50 (rat) > 5 mg/L (4 hours)
Common name	Fluroxypyr-meptyl
Chronic toxicity	NOEL: rat = 80 mg/kg/day; mice = 320 mg/kg/day.
Carcinogenicity	EPA; Not classified EU; Not classified IARC; Not classified NOEL = 1,000 mg/kg/day (mice) NOEL – 320 mg/kg/day (rat)
Mutagenicity	Not mutagenic
Other information	Teratogenicity; Not teratogenic in animal experiments NOAEL = 1.000 mg/kg/day (rat)

12. ECOLOGICAL INFORMATION

Common Name	Fluroxypyr-meptyl
Mobility	Soil Moderately mobile (Fluroxypyr)
Persistence/degradability	Soil The product is not persistent Half-life time (t _{1/2}) 5 – 9 days (Fluroxypyr) > 7 days (Fluroxypyr-meptyl)

Degradation is primarily via: microorganisms (Fluroxypyr)
Hydrolysis (Fluroxypyr-meptyl)

Ecotoxicity

Water

DR 50 = 1 – 3 days (Fluroxypyr-methyl)

Fish

LC 50 (96 hours) rainbow trout > 100 mg/L (Fluroxypyr)
Golden orfe > 100 mg/L (Fluroxypyr)
Rainbow trout > 0.9 mg/L, solubility
Limit (Fluroxypyr-meptyl)
Golden orfe > 0.9 mg/L, solubility
Limit (Fluroxypyr-meptyl)

Daphnia magna

EC 50 (48 hours) > 100 mg/L (Fluroxypyr)
> 0.9 mg/L, solubility limit (Fluroxypyr-
meptyl)

Green algae

EC 50 (96 hours) > 100 mg/L (Fluroxypyr)
> 0.9 mg/L solubility limit
Fluroxypyr-meptyl)

Birds

Bobwhite quail LD 50 > 2,000 mg/kg (Fluroxypyr-meptyl &
Fluroxypyr)
Mallard duck LD 50 > 2,000 mg/kg (Fluroxypyr-meptyl &
Fluroxypyr)

Bees

Oral LD 50 > 100g/bee (Fluroxypyr-meptyl)
Contact LD 50 > 100 g/bee (Fluroxypyr-meptyl)
Contact LD 50 > 25 g/bee (Fluroxypyr)

Harmful to aquatic organisms. Not toxic: birds and bees

13. DISPOSAL CONSIDERATIONS

Methods of disposal

dispose of in a pesticide approved landfill, or in a chemical
Incinerator equipped with scrubbers, In accordance with
National and regional regulations.

14. TRANSPORT INFORMATION

International transport regulations

UN number 1268

Land-Road/Railway

Proper shipping name	Petroleum distillate, N.O.S.
ADR/RID class	3, Label 3
ADR/RID item number	31 c
Packing group	III
Hazard identification Number	30

Inland waterways

Proper shipping name	Petroleum distillate, N.O.S
ADNR Class	3, 31 c Label 3

Sea

Proper shipping name	Petroleum distillate, N.O.S.
IMDG Class	3.3, Label 3 + Marine pollutant
IMDG page number	3375
Packing group	III
Medical First Aid Guide (MFAG)	311
Emergency Schedules (EmS)	3-0

Air

Proper shipping name	Petroleum distillate, N.O.S.
UN/ID Number	1268
IATA-DGR Class	3

National transport regulations

No additional national transport regulations are known to the supplier

15. REGULATORY INFORMATION

Classification	This product is provisionally labeled by the supplier in Accordance with the suppliers understanding of the EU regulations.
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Hazard symbol(s)	Xn
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Risk phrases

R 10; Flammable
R 200; Harmful by inhalation
R36/37/38; Irritating to eyes, respiratory system and skin
R 43; May cause sensitization by skin contact.

Safety phrases

S02; Keep out of reach of children
S13; Keep away from food, drink and animal
Feedingstuffs

S20/21; When using do not eat, drink or smoke
S23D; Do not breathe spray.
S26; In case of contact with eyes, rinse immediately with
Plenty of water and seek medical advice.
S28; After contact with skin, wash immediately with plenty
of water.
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).
S61; Avoid release to the environment. Refer to special
instructions/Safety data sheets.

16. OTHER INFORMATION

The information contained in the Safety Data sheet is correct to the best of our knowledge at the date of issue. It is intended as a guide for the safe use, handling, disposal, storage and transportation and is not intended as a warranty or as a specification. The information Relates only to the product specified and may not be suitable for combinations with Other materials or in processes other than those specifically described herein.

History

Date of printing	5/12/1999
Date previous issue	29/12/1997
Date of issue	29/12/1997
Version	001.00.00

The version-number is made up of three parts; part 1 is a general information code, part 2 a country-specific code and part 3 a language-specific code.

