



SAFETY DATA SHEET
GALAXY (Fluthiacet-Methyl 10.30% W/W EC)

SDS # : FO000559-A
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Version 1

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name GALAXY (Fluthiacet-Methyl 10.30% W/W EC)
Product Code(s) FO000559-A
Recommended Use: Herbicide
Restrictions on Use: Use as recommended by the label.
Manufacturer/Supplier FMC India Private Limited
TCG Financial Centre
2nd Floor, C-53
Bandra Kurla Complex,
Bandra (E), Mumbai, Bandra Suburban,
Maharashtra - 400 098,
India
Emergency telephone 022-6704 5504 / 5404

Section 2: HAZARDS IDENTIFICATION

GHS Classification

Reproductive toxicity	Category 1B
Acute aquatic toxicity	Category 1
Chronic aquatic toxicity	Category 1

Label Elements



Signal Word

Danger

Hazard Statements

H360 - May damage fertility or the unborn child
H410 - Very toxic to aquatic life with long lasting effects

Precautionary Statements - Prevention

P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P273 - Avoid release to the environment

Precautionary Statements - Response

P308 + P313 - If exposed or concerned: Get medical advice/attention

P391 - Collect spillage

Precautionary Statements - Storage

P405 - Store locked up

Precautionary Statements - Disposal

P501 - Dispose of contents/container according to label directions

Other Information

May be harmful if swallowed and enters airways

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS-No	Weight %
Fluthiacet-methyl	117337-19-6	10.3
Acetophenone	98-86-2	35-45
Methyl pyrrolidone	872-50-4	25-35
Naphtha (petroleum), heavy aromatic	64742-94-5	10-20

Section 4: FIRST AID MEASURES

Inhalation	Move to fresh air. If breathing is difficult, give oxygen. Artificial respiration and/or oxygen may be necessary. Consult a physician.
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention if irritation develops and persists.
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention immediately if irritation persists.
Ingestion	If swallowed, call a poison control center or doctor immediately. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.
Most important symptoms and effects, both acute and delayed	The symptoms of poisoning by Fluthiacet-methyl are unknown.
Indication of immediate medical attention and special treatment needed, if necessary	No specific antidote is known. Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media	Dry chemical, carbon dioxide, water spray or regular foam.
Unsuitable extinguishing media	No information available
Specific Hazards Arising from the Chemical	Thermal decomposition can lead to release of irritating gases and vapors.
Protective equipment and precautions for firefighters	As in any fire, wear self-contained breathing apparatus and full protective gear.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions	Isolate and post spill area. Remove all sources of ignition. Wear protective gloves/clothing and eye/face protection. For personal protection see section 8.
Other	For further clean-up instructions, call FMC Emergency Hotline number listed in Section 1

"Product and Company Identification" above.

Environmental Precautions

Keep people and animals away from and upwind of spill/leak. Keep material out of lakes, streams, ponds, and sewer drains. Keep out of waterways.

Methods for Containment

If appropriate, surface water drains should be covered. Minor spills on the floor or other impervious surface should be absorbed onto an absorptive material such as universal binder, attapulgate, bentonite or other absorbent clays. Collect the contaminated absorbent in suitable containers. Clean area with much water and industrial detergent. Absorb wash liquid onto absorbent and transfer to suitable containers. The used containers should be properly closed and labelled.

Methods for cleaning up

Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Pick up and transfer to properly labeled containers.

Section 7: HANDLING AND STORAGE

Handling

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use.

Storage

Keep in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep in properly labeled containers. Keep away from food, drink and animal feedingstuffs.

Materials to avoid

Strong oxidizing agents, Strong acids, Strong bases.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

Component	China	Japan	Korea	Australia	Taiwan
Methyl pyrrolidone 872-50-4 (25-35)		OEL: 1 ppm OEL: 4 mg/m ³ S*		STEL 75 ppm STEL 309 mg/m ³ TWA 25 ppm TWA 103 mg/m ³	

Engineering measures

Apply technical measures to comply with the occupational exposure limits (if listed above). When working in confined spaces (tanks, containers, etc.), make sure there is an adequate source of air for breathing and wear the recommended equipment. Ventilate all transport vehicles prior to discharge.

Personal protective equipment

Respiratory Protection

The product does not automatically present an airborne exposure concern during normal handling. In the event of an accidental discharge of the material which produces a heavy vapour or mist, workers should put on officially approved respiratory protection equipment with a universal filter type including particle filter.

Hand Protection

Wear chemical protective gloves made of materials such as nitrile or neoprene.

Eye/Face Protection

For dust, splash, mist or spray exposure, wear chemical protective goggles. Maintain eye wash fountain and quick-drench facilities in work area.

Skin and Body Protection

Wear long-sleeved shirt, long pants, socks, and shoes.

Hygiene measures

Clean water should be available for washing in case of eye or skin contamination. Wash skin prior to eating, drinking, chewing gum or using tobacco. Shower or bathe at the end of working. Remove and wash contaminated clothing before re-use. Launder work clothing separately from regular household laundry.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State

Liquid

Appearance	Clear Liquid
Odor	Aromatic
Color	Light yellow
Odor threshold	No information available
pH	No information available
Melting point/freezing point	No information available
Boiling Point/Range	No information available
Flash point	> 24.5 °C
Evaporation Rate	No information available
Flammability (solid, gas)	No information available
Flammability Limit in Air	
Upper flammability limit:	No information available
Lower flammability limit:	No information available
Vapor pressure	No information available
Vapor density	No information available
Specific gravity	0.980-0.995
Water solubility	Emulsifies
Solubility(ies)	No information available
Partition coefficient	No information available
Autoignition temperature	No information available
Decomposition temperature	No information available
Viscosity, kinematic	No information available
Viscosity, dynamic	No information available
Molecular weight	No data available
Relative density	No information available
Bulk density	No information available

Section 10: STABILITY AND REACTIVITY

Reactivity	None under normal use conditions
Stability	Stable under recommended storage conditions
Hazardous reactions	None under normal processing.
Hazardous polymerization	Hazardous polymerization does not occur.
Conditions to Avoid	Heat, flames and sparks.
Incompatible products	Strong oxidizing agents, Strong acids, Strong bases.
Hazardous Decomposition Products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Numerical measures of toxicity - Product Information

LD50 Oral	> 5000 mg/kg (rat) (Method OECD 425)
LD50 Dermal	> 2000 mg/kg (rat) (Method: OECD 402)
LC50 Inhalation (dust)	> 4.44 mg/L 4 hr (rat) (Method: OECD 403)
Skin corrosion/irritation	Non-irritating (rabbit). (Method: OECD 404).
Serious eye damage/eye irritation	Non-irritating (rabbit). (Method: OECD 405).
Sensitization	Not expected to be sensitizing.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Mutagenicity	The product contains no ingredients known to be mutagenic.
Carcinogenicity	There are no known carcinogenic chemicals in this product

Reproductive toxicity	May cause adverse reproductive effects.
Developmental toxicity	N-Methylpyrrolidone caused malformations/developmental toxicity in laboratory animals.
STOT - single exposure	Not classified.
STOT - repeated exposure	Not classified.
Chronic toxicity	Prolonged exposure may cause chronic effects.
Aspiration hazard	The product does not present an aspiration pneumonia hazard.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

The environmental impact of this product has not been fully investigated.

Fluthiacet-methyl (117337-19-6)				
Active Ingredient(s)	Duration	Species	Value	Units
	48 h EC50	Crustacea	2.3	mg/L
	21 d NOEC	Fish	0.0027	mg/L
	21 d NOEC	Crustacea	0.035	mg/L
	96 h LC50	Rainbow trout	0.043	mg/L
	72 h EC50	Kirchneria subcapitata	0.00251	mg/L

Birds: LD50 oral: > 5000 mg/kg (Chicken, Gallus domesticus)
 LD50 oral: > 5000 mg/kg (Pigeon, Columba livia)

Bees: 24 h LD50: > 4000 µg/bee (Apis cerana indica) **Fish:** 96 h LC50: >100 mg/L (Catla catla)

Persistence and degradability	Fluthiacet-methyl: Non-persistent. Does not readily hydrolyze.
Bioaccumulation	Fluthiacet-methyl: The substance does not have a potential for bioconcentration.
Mobility	Fluthiacet-methyl: Very mobile in soils.
Other Adverse Effects	No information available.

Section 13: DISPOSAL CONSIDERATIONS

Waste disposal methods	Improper disposal of excess pesticide, spray mixture, or rinsate is prohibited. If these wastes cannot be disposed of by use according to label instructions, contact appropriate disposal authorities for guidance. Proper personal protective equipment, as described in Sections 7 and 8, must be worn while handling materials for waste disposal.
Contaminated containers and packages	Dispose of in accordance with local regulations.

Section 14: TRANSPORT INFORMATION

IMDG/IMO	
UN/ID no	UN3082
Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s. (Fluthiacet methyl)
Hazard class	9
Packing Group	III
EmS No.	F-A, S-F
Marine Pollutant	Yes

ICAO/IATA

UN/ID no UN3082
Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s. (Fluthiacet methyl)
Hazard class 9
Packing Group III
Marine Pollutant Yes

Section 15: REGULATORY INFORMATION

International Inventories

A food, food additive, drug, cosmetic, or device, when manufactured, processed or distributed in commerce for use as a food, food additive, drug, cosmetic, or device may not be subject to local notification requirements. Check local regulations for more information.

Chemical name	TSCA (United States)	DSL (Canada)	EINECS/ELINCS (Europe)	ENCS (Japan)	China (IECSC)	KECL (Korea)	PICCS (Philippines)	AICS (Australia)
Acetophenone 98-86-2	X	X	X	X	X	X	X	X
Methyl pyrrolidone 872-50-4	X	X	X	X	X	X	X	X
Naphtha (petroleum), heavy aromatic 64742-94-5	X	X	X		X	X	X	X

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

Section 16: OTHER INFORMATION

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End of Safety Data Sheet