



## SAFETY DATA SHEET

Critel (Metamifop 10% EC)

SDS # : FO003439-A  
Revision date: 2020-03-22  
Format: AP  
Version 1

### Section 1: PRODUCT AND COMPANY IDENTIFICATION

**Product Name** Critel (Metamifop 10% EC)

**Product Code(s)** FO003439-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** Medical emergency: 022-6704 5504 / 5404  
For leak, fire, spill or accidents: 000-800-100-7141 (CHEMTREC)

### Section 2: HAZARDS IDENTIFICATION

#### GHS Classification

Acute toxicity - Oral	Category 5
Skin corrosion/irritation	Category 3
Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1
Acute aquatic toxicity	Category 2
Chronic aquatic toxicity	Category 2

#### Label Elements



**Signal Word:**

**Danger**

#### Hazard Statements

H303 - May be harmful if swallowed  
H316 - Causes mild skin irritation  
H318 - Causes serious eye damage  
H317 - May cause an allergic skin reaction  
H411 - Toxic to aquatic life with long lasting effects

#### Precautionary Statements - Prevention

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray  
P272 - Contaminated work clothing should not be allowed out of the workplace  
P280 - Wear protective gloves/protective clothing/eye protection/face protection  
P273 - Avoid release to the environment

**Precautionary Statements - Response**

P310 - Immediately call a POISON CENTER or doctor/ physician  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water  
P321 - Specific treatment (see supplemental first aid instructions on label)  
P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention  
P362 + P364 - Take off all contaminated clothing and wash it before reuse  
P391 - Collect spillage

**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 %
Metamifop Technical	256412-89-2	10.63
Acetophenone	98-86-2	5-10
2-Ethylhexyl Acetate	103-09-3	5-10
Petroleum naphtha, light aromatic	64742-95-6	20-30

**Section 4: FIRST AID MEASURES**

<b>Inhalation</b>	Move to fresh air. If breathing is difficult, give oxygen. Artificial respiration and/or oxygen may be necessary. Consult a physician.
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention if irritation develops and persists.
<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention immediately if irritation persists.
<b>Ingestion</b>	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.
<b>Most important symptoms and effects, both acute and delayed</b>	Repeated eye or skin contact may cause moderate eye and skin irritation and allergic reactions.
<b>Indication of immediate medical attention and special treatment needed, if necessary</b>	Treat symptomatically. No specific antidote is known.

**Section 5: FIRE FIGHTING MEASURES**

<b>Suitable Extinguishing Media</b>	Dry chemical, carbon dioxide, water spray or regular foam.
<b>Unsuitable extinguishing media</b>	No information available
<b>Specific Hazards Arising from the Chemical</b>	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

<b>Personal Precautions</b>	Isolate and post spill area. Remove all sources of ignition. Wear protective gloves/clothing and eye/face protection. For personal protection see section 8.
<b>Other</b>	For further clean-up instructions, call FMC Emergency Hotline number listed in Section 1 "Product and Company Identification" above.
<b>Environmental Precautions</b>	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.
<b>Methods for Containment</b>	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.
<b>Methods for cleaning up</b>	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

<b>Handling</b>	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.
<b>Storage</b>	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.
<b>Materials to avoid</b>	Strong oxidizing agents, Strong acids, Strong bases.

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Limits

<b>Engineering measures</b>	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.
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### Personal protective equipment

<b>Respiratory Protection</b>	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.
<b>Hand Protection</b>	Wear chemical protective gloves made of materials such as nitrile or neoprene.
<b>Eye/Face Protection</b>	For dust, splash, mist or spray exposure, wear chemical protective goggles. Maintain eye wash fountain and quick-drench facilities in work area.
<b>Skin and Body Protection</b>	Wear long-sleeved shirt, long pants, socks, and shoes.
<b>Hygiene measures</b>	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 423)
LD50 Dermal	> 4000 mg/kg (rat)
LC50 Inhalation (dust)	> 3.66 mg/L 4 hr (rat) - Maximum attainable concentration (zero mortality)
Skin corrosion/irritation	Mildly irritating (rabbit).
Serious eye damage/eye irritation	Severely irritating (rabbit).

**Sensitization** Metamifop: May cause sensitization by skin contact.

**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** This product does not contain any known or suspected reproductive hazards.  
**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

Toxic to aquatic life with long lasting effects.

Metamifop Technical (256412-89-2)				
Active Ingredient(s)	Duration	Species	Value	Units
	96 h LC50	Rainbow trout	0.307	mg/L
	48 h EC50	Daphnia	0.288	mg/L
	48 h EC50	Algae	>2.03	mg/L

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

**Bees:** 24 h LD50: > 1000 µg/bee (Apis cerana indica)  
**Fish:** 96 h LC50: 3.3 mg/L (Cyprinus carpio)  
96 h LC50: 27.5 mg/L (Poecilia reticulata)

**Persistence and degradability** No information available.

**Bioaccumulation** Metamifop. The substance does not have a potential for bioconcentration.

**Mobility** No information available.

**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. (Metamifop)  
**Hazard class** 9  
**Packing Group** III

EmS No. F-A, S-F  
 Environmental Hazards Yes

**ICAO/IATA**

UN/ID no UN3082  
 Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s. (Metamifop)  
 Hazard class 9  
 Packing Group III  
 Environmental Hazards 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
2-Ethylhexyl Acetate 103-09-3	X	X	X	X	X	X	X	X
Petroleum naphtha, light aromatic 64742-95-6	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

Prepared By: FMC Corporation

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Revision date: 2020-03-22

Revision note: Initial Release.

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**End of Safety Data Sheet**