

GR1[™] Herbicide

Version 1.0

Revision Date 02/01/2018 Ref. 130000129654

This SDS adheres to the standards and regulatory requirements of the United States and may not meet the regulatory requirements in other countries.

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : GR1[™] Herbicide

Tradename/Synonym : GR1

Pyroxsulam: N-(5,7-dimethoxy[1,2,4]triazolo[1,5-a]pyrimidin-2-yl)-2-methoxy-4-

(trifluoromethyl)-3-pyridinesulfonamide

Cloquintocet-mexyl

Product Use : Herbicide

Restrictions on use

Do not use product for anything outside of the above specified uses.

Manufacturer/Supplier : FMC Corporation

2929 Walnut Street

Philadelphia, PA 19104, USA

(215) 299-6000 (General Information)

msdsinfo@fmc.com (E-Mail General Information)

Medical Emergencies : 1 800 / 331-3148 (U.S.A. & Canada)

1 651 / 632-6793 (All Other Countries - Collect)

For leak, fire, spill or : 1 800 / 424 9300 (CHEMTREC - U.S.A.)

accident emergencies, call 1 703 / 741-5970 (CHEMTREC - International)

1 703 / 527 3887 (CHEMTREC - Alternate)

SECTION 2. HAZARDS IDENTIFICATION

Product hazard category

Skin sensitisation Category 1
Carcinogenicity Category 1A



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Label content

Pictogram



Signal word : Danger

Hazardous warnings : May cause an allergic skin reaction.

May cause cancer.

Hazardous prevention

measures

: Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

Contaminated work clothing should not be allowed out of the workplace.

Wear protective gloves.

Use personal protective equipment as required.

IF ON SKIN: Wash with plenty of soap and water.

IF exposed or concerned: Get medical advice/attention.

If skin irritation or rash occurs: Get medical advice/ attention.

Wash contaminated clothing before reuse.

Store locked up.

Dispose of contents/ container to an approved waste disposal plant.

Other hazards

Information presented in Section 2 conforms to the requirements of the Occupational Safety and Health Administration (OSHA) Hazard Communication Standard of 2012. See Section 15 for applicable information conforming to the requirements of the Federal Insecticide Fungicide and Rodenticide Act (FIFRA), as required by the US Environmental Protection Agency (EPA), or by state Regulatory Agencies.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS



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Component	CAS-No.	Concentration
Pyroxsulam	422556-08-9	13.13 %
Cloquintocet-mexyl	99607-70-2	13.13 %
Kaolin	1332-58-7	23.4 %
Titanium dioxide	13463-67-7	0.5 - 1 %
Quartz	14808-60-7	0.1 - 0.5 %
Other Ingredients		48.84 - 49.74 %

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

SECTION 4. FIRST AID MEASURES

General advice : Information presented in Section 4 conforms to the requirements of the

Occupational Safety and Health Administration (OSHA) Hazard Communication Standard of 2012. See Section 15 for applicable information conforming to the requirements of the Federal Insecticide Fungicide and Rodenticide Act (FIFRA), as required by the US Environmental Protection Agency (EPA), or by state

Regulatory Agencies.

See Section 1 for emergency phone numbers.

See Label for Additional Precautions and Directions for Use.

Have the product container or label with you when calling a poison control

center or doctor, or going for treatment.



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Inhalation : Move to fresh air. If person is not breathing, call 911 or an ambulance, then

give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison

control center or doctor for treatment advice.

Skin contact : Take off all contaminated clothing immediately. Rinse skin immediately with

plenty of water for 15-20 minutes. Call a poison control center or doctor for

treatment advice.

Eye contact : Hold eye open and rinse slowly and gently with water for 15-20 minutes.

Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Ingestion : Call a poison control center or doctor for treatment advice. Have person sip a

glass of water if able to swallow. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Do not give anything by mouth to an

unconscious person.

Most important

symptoms/effects, acute

and delayed

Protection of first-aiders Notes to physician

· N/

No applicable data available.No applicable data available.

: No applicable data available.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Water spray, Foam, Dry chemical, Carbon dioxide (CO2)

Unsuitable extinguishing

media

: High volume water jet, (contamination risk)

Specific hazards : To reduce the potential for dust explosions, do not permit dust to accumulate.

Hazard combustion products may include and are not limited to carbon

monoxide and carbon dioxide.

Special protective equipment

for firefighters

: Wear full protective clothing and self-contained breathing apparatus.

Further information : (on small fires) If area is heavily exposed to fire and if conditions permit, let

fire burn itself out since water may increase the area contaminated. Cool containers/tanks with water spray. Do not allow run-off from fire fighting to

enter drains or water courses.



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SECTION 6. ACCIDENTAL RELEASE MEASURES

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Safeguards (Personnel) : Evacuate personnel, thoroughly ventilate area, use self-contained breathing

apparatus. Use personal protective equipment.

Environmental precautions : Prevent material from entering sewers, waterways, or low areas.

Spill Cleanup : Sweep up and shovel into suitable containers for disposal.

Accidental Release Measures : Never return spills in original containers for re-use. Dispose of in accordance

with local regulations.

SECTION 7. HANDLING AND STORAGE

Handling (Personnel) : Pneumatic conveying and other mechanical handling operations can generate

combustible dust. Do not swallow. Do not breathe dust or spray mist. Avoid contact with skin, eyes and clothing. Avoid prolonged or repeated contact with skin. Wash hands before breaks and immediately after handling the product. Keep container closed. Remove and wash contaminated clothing before re-

use. Use with adequate ventilation.

Wash hands thoroughly with soap and water after handling and before eating,

drinking, chewing gum, using tobacco, or using the toilet. Remove

clothing/PPE immediately if material gets inside. Wash thoroughly and put on

clean clothing.

Handling (Physical Aspects) : Keep away from heat and sources of ignition.

Dust explosion class : No applicable data available.

Storage : Do not contaminate water, other pesticides, fertilizer, food or feed in storage.

Store in original container. Store in a cool, dry place. Keep out of the reach of

children.

Storage period : No applicable data available.

Storage temperature : No applicable data available.



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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls : Information presented in Section 8 conforms to the requirements of the

Occupational Safety and Health Administration (OSHA) Hazard

Communication Standard of 2012. See Section 15 for applicable information conforming to the requirements of the Federal Insecticide Fungicide and Rodenticide Act (FIFRA), as required by the US Environmental Protection Agency (EPA), or by state Regulatory Agencies. When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d)(4-6)], the handler PPE requirements may be reduced or

modified as specified in the WPS. Ensure adequate ventilation.

Personal protective equipment

Respiratory protection : Where there is potential for airborne exposures in excess of applicable limits,

wear approved respiratory protection with dust/mist cartridge. Provide

adequate ventilation.

Skin and body protection : Applicators and other handlers must wear:

Long sleeved shirt and long pants

Shoes plus socks

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has

been treated, such as plants, soil, or water, is:

Coveralls

Chemical resistant gloves made of any waterproof material

Shoes plus socks

Protective measures : Use this product in accordance with its label. Follow manufacturer's

instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE

separately from other laundry.

Exposure Guidelines
Exposure Limit Values

Quartz

Permissible (OSHA) 2.4 millions of particles per cubic foot of air TWA

exposure limit: Respirable.

Remarks The exposure limit is calculated from the equation, 250/(%SiO2+5), using a value

equation, 250/(%SiO2+5), using a value of 100% SiO2. Lower percentages of



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Permissible exposure limit:	(OSHA)	0.1 mg/m3	SiO2 will yield higher exposure limits. TWA Respirable.
		Remarks	The exposure limit is calculated from the equation, 10/(%SiO2+2), using a value of 100% SiO2. Lower percentages of SiO2 will yield higher exposure limits.
Permissible exposure limit:	(OSHA)	0.3 mg/m3	TWA Total dust.
ехрозиге шти.		Remarks	The exposure limit is calculated from the equation, 30/(%SiO2+2), using a value of 100% SiO2. Lower values of % SiO2 will give higher exposure limits.
TLV	(ACGIH)	0.025 mg/m3	TWA Respirable fraction.
AEL * AEL *	(FMC) (FMC)	0.01 mg/m3 0.02 mg/m3	12 hr. TWA Respirable dust. 8 hr. TWA Respirable dust.

Cloquintocet-mexyl No applicable data available.

Pyroxsulam

No applicable data available.

Titanium dioxide Permissible exposure limit: TLV	(OSHA) (ACGIH)	15 mg/m3 10 mg/m3	8 hr. TWA Total dust.
AEL * AEL *	(FMC) (FMC)	10 mg/m3 5 mg/m3	8 & 12 hr. TWA Total dust. 8 & 12 hr. TWA Respirable dust.
Kaolin Permissible exposure limit: Permissible exposure limit:	(OSHA)	5 mg/m3 15 mg/m3	8 hr. TWA Respirable fraction. 8 hr. TWA Total dust.
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TLV (ACGIH) 2 mg/m3 TWA Respirable fraction.

Remarks The value is for particulate matter

containing no asbestos and <1%

crystalline silica.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state : solid
Form : solid
Color : tan

Odor : sweet

Odor threshold : No applicable data available.

pH : 5.17

Melting point/range : No applicable data available.

Boiling point/boiling range : No applicable data available.

Flash point : Method: closed cup

Evaporation rate : No applicable data available.

Flammability (solid, gas) : No applicable data available.

Upper explosion limit : No applicable data available.

Lower explosion limit : No applicable data available.

Vapour Pressure : No applicable data available.

Vapour density : No applicable data available.

Density : 0.43 g/cm3 at 23.2 °C (73.8 °F)

^{*} AEL is FMC's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.



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Specific gravity (Relative

density)

: No applicable data available.

Water solubility : No applicable data available.

Solubility(ies) : No applicable data available.

Partition coefficient: n-

octanol/water

: No applicable data available.

Auto-ignition temperature : No applicable data available.

Decomposition temperature : No applicable data available.

Viscosity, kinematic : No applicable data available.

Viscosity, dynamic : No applicable data available.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No applicable data available.

Chemical stability : Stable at normal temperatures and storage conditions.

Possibility of hazardous

reactions

Polymerization will not occur.

Conditions to avoid : Elevated temperature

Incompatible materials : No materials to be especially mentioned.

Hazardous decomposition

products

No applicable data available.

SECTION 11. TOXICOLOGICAL INFORMATION

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Dermal LD50 : > 5,000 mg/kg , male and female, Rabbit

Oral LD50 : > 5,000 mg/kg, female, Rat

Skin irritation : No skin irritation, Rabbit

Eye irritation : No eye irritation, Rabbit

Sensitisation : May cause sensitisation by skin contact., mice



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Further information : Information presented in this Section conforms to the requirements of

the Occupational Safety and Health Administration (OSHA) Hazard Communication Standard of 2012. See Section 15 for applicable information conforming to the requirements of the Federal Insecticide Fungicide and Rodenticide Act (FIFRA), as required by the US Environmental Protection Agency (EPA), or by state Regulatory

Agencies.

Carcinogenicity

The carcinogenicity classifications for this product and/or its ingredients have been determined according to HazCom 2012, Appendix A.6. The classifications may differ from those listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or those found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition).

Material	IARC	NTP	OSHA
Titanium dioxide	2B		
Quartz	1	X	

SECTION 12. ECOLOGICAL INFORMATION

Additional ecological information : Environmental Hazards: Do not apply directly to water, or to areas

where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters or rinsate. See product label for

additional application instructions relating to environmental

precautions.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste disposal methods -

Product

: Do not contaminate water, food or feed by disposal. Wastes resulting from the use of this product must be disposed of on site or at an approved waste

disposal facility.

Waste disposal methods -

Container

: Container Refilling and Disposal:

Refer to the product label for instructions.

Do not transport if this container is damaged or leaking.



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Contaminated packaging : No applicable data available.

SECTION 14. TRANSPORT INFORMATION

IATA C UN number : 3077

Proper shipping name : Environmentally hazardous substance, solid, n.o.s.

(Cloquintocet-mexyl, Pyroxsulam)

Class : 9
Packing group : III
Labelling No. : 9MI

IMDG UN number : 3077

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE,

SOLID, N.O.S. (Cloquintocet-mexyl, Pyroxsulam)

Class : 9
Packing group : III
Labelling No. : 9

Marine pollutant : yes (Cloquintocet-mexyl, Pyroxsulam)

Not regulated as a hazardous material by DOT.

SECTION 15. REGULATORY INFORMATION

Other regulations : This Safety Data Sheet is for a pesticide product registered by the US

Environmental Protection Agency (USEPA) and various state regulatory agencies, and is therefore also subject to certain requirements under US and

state pesticide laws, including the Federal Insecticide Fungicide and Rodenticide Act (FIFRA). These requirements differ from the classification criteria and hazard information required by OSHA for safety data sheets, and for workplace labels of non-pesticide chemicals. The following is information

determined by USEPA, and various states.

Prolonged or frequently repeated skin contact may cause allergic reactions in

some individuals.

SARA 313 Regulated

Chemical(s)

: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established

by SARA Title III, Section 313.



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PA Right to Know Regulated Chemical(s) : Substances on the Pennsylvania Hazardous Substances List present at a concentration of 1% or more (0.01% for Special Hazardous Substances):

Kaolin

Title III hazard classification

: Acute Health Hazard: Yes Chronic Health Hazard: Yes

Fire: No.

Reactivity/Physical hazard: No

Pressure: No

EPA. : In the United States this product is regulated by the US Environmental

Protection Agency (EPA) under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA). It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read and follow all label directions.

This product is excluded from listing requirements under EPA/TSCA.

SECTION 16. OTHER INFORMATION

NFPA

Health 2

Flammability 1

Reactivity/Physical hazard 0

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