

GR2 Herbicide

Version 1.0

Revision Date 02/01/2018 Ref. 130000145717

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 **GR2** Herbicide

Cloquintocet :Acetic acid, 2-[(5-chloro-8-quinolinyl)oxy]-Tradename/Synonym

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

(trifluoromethyl)-3-pyridinesulfonamide

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)

: 1800 / 331-3148 (ProPharma Group - U.S.A. & Canada) Medical Emergencies

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

For leak, fire, spill or : 1800 / 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 Sub-category 1B



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Label content

Pictogram :



Signal word : Warning

Hazardous warnings : May cause an allergic skin reaction.

Hazardous prevention

measures

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

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

Wear protective gloves.

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

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

Wash contaminated clothing before reuse.

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.



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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
Cloquintocet	88349-88-6	45.15 %
Pyroxsulam	422556-08-9	21.5 %
Kaolin	1332-58-7	4.2 %
Other Ingredients		29.15 %

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.

First Aid responders should pay attention to self-protection and use the

recommended protective clothing.

See Section 1 for emergency phone numbers.

See Label for Additional Precautions and Directions for Use. First aider needs

to protect himself.

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

center or doctor, or going for treatment.

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.



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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. Wash clothing before reuse. Dispose of contaminated

clothing and shoes.

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 : 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 : Hazardous decomposition products nitrogen oxides Hydrogen chloride carbon

dioxide Carbon monoxide

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.

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.



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Safeguards (Personnel) : Evacuate personnel to safe areas. Ensure adequate ventilation. Keep people

away from and upwind of spill/leak. Wear suitable 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

: Do not swallow. Avoid contact with skin, eyes and clothing. Do not breathe Handling (Personnel)

dust or spray mist. Wash thoroughly after handling. Use only 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. Remove personal protective equipment immediately after handling this product. Wash the outside of gloves before removing. As soon

as possible, wash thoroughly and change into 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.

: No applicable data available. Storage period

Storage temperature : No applicable data available.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

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



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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. IMPORTANT: When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified for "Applicators and Other Handlers" and have such PPE

immediately available for use in an emergency, such as a spill or equipment

breakdown.

Personal protective equipment

Hand protection

: Material: Protective gloves

Eye protection : Wear protective eyewear to prevent contact with this substance.

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 : 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. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product. Do not reuse them. Use this product in accordance with its label.

Exposure Guidelines
Exposure Limit Values

Pvroxsulam

No applicable data available.

Kaolin

Permissible (OSHA) 5 mg/m3 8 hr. TWA Respirable fraction.

exposure limit:

Permissible (OSHA) 15 mg/m3 8 hr. TWA Total dust.



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exposure limit:

Permissible (OSHA) 15 millions of particles per cubic foot of air TWA

exposure limit: Respirable fraction.

Permissible (OSHA) 50 millions of particles per cubic foot of air TWA Total

exposure limit: dust.

Permissible (OSHA) 5 mg/m3 TWA Respirable fraction.

exposure limit:

Permissible (OSHA) 15 mg/m3 TWA Total dust.

exposure limit: 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 : mild

Odor threshold : No applicable data available.

pH : 4.13

Melting point/range : No applicable data available.

Boiling point/boiling range : No applicable data available.

Flash point : Method: closed cup

Not applicable

Evaporation rate : No applicable data available.

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

Upper explosion limit : No applicable data available.



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Lower explosion limit : No applicable data available.

Vapour Pressure : No applicable data available.

Vapour density : No applicable data available.

Specific gravity (Relative

density)

: No applicable data available.

Bulk density : 591 kg/m3

loose

Bulk density : 653.8 kg/m3

Tapped

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 dangerous reaction known under conditions of normal use.

Chemical stability : The product is chemically stable under recommended conditions of storage,

use and temperature.

Stable at normal temperatures and storage conditions.

Possibility of hazardous

reactions

: Polymerization will not occur.

Conditions to avoid : To avoid thermal decomposition, do not overheat.

Incompatible materials : Avoid contact with: strong oxidizers

Hazardous decomposition : Decomposition products may vary in nature depending upon actual



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products conditions, eg. availability of oxygen, temperature and presence of other

materials., Hazardous decomposition products may include:, Carbon monoxide, carbon dioxide, Hydrogen chloride, Nitrogen oxides (NOx)

SECTION 11. TOXICOLOGICAL INFORMATION

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Inhalation 4 h LC50 : > 5.12 mg/l, Rat

Information given is based on data on the components.

Inhalation 4 h LC50 : > 6.11 mg/l, male and female, Rat

Information given is based on data on the components.

Dermal LD50 : > 5,000 mg/kg , Rat

Toxicology data for the components

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

Toxicology data for the components

Skin irritation : No skin irritation, Rabbit

Minimal effects that do not meet the threshold for classification.

Eye irritation : No eye irritation, Rabbit

Minimal effects that do not meet the threshold for classification.

Sensitisation : The product is a skin sensitiser, sub-category 1B., Guinea pig

Active ingredient

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).

None of the components present in this material at concentrations equal to or greater than 0.1% are listed



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by IARC, NTP, or OSHA, as a carcinogen.

SECTION 12. ECOLOGICAL INFORMATION

Additional ecological information : 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

IMDG

: Container Refilling and Disposal:

Refer to the product label for instructions.

Do not transport if this container is damaged or leaking.

See Section 1 for emergency phone numbers.

Contaminated packaging : Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

IATA C UN number : 3077

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

(Pyroxsulam)

Class : 9

Packing group : III Labelling No. : 9MI UN number : 3077

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE,

SOLID, N.O.S. (Pyroxsulam)

Class : 9



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Packing group : III Labelling No. : 9

Marine pollutant : yes (Pyroxsulam)

Not regulated as a hazardous material by DOT.

Marine Pollutants assigned UN number 3077 and 3082 in single or combination packaging containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 KG or less for solids may be transported as non-dangerous goods as provided in section 2.10.2.7 of IMDG code, IATA special provision A197, and ADR/RID special provision 375.

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.

Caution

Harmful if swallowed. Causes moderate eye irritation.

Avoid contact with eyes or clothing. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

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.

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



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SECTION 16. OTHER INFORMATION

- [™] Trademark of FMC Corporation.
- [®] Registered trademark of FMC Corporation.

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