

SAFETY DATA SHEET

Report Extra

SDS # : FO002290-A
Revision date: 2017-10-12
Format: NA
Version 1.01



1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name Report Extra

Other means of identification

Product Code(s) FO002290-A

Synonyms CHLORSULFURON: Benzenesulfonamide, 2-chloro-N-[[[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]- (CAS Name); 1-(2-Chlorophenylsulfonyl)-3-(4-methoxy-6-methyl-1,3,5-triazin-2-yl)urea (IUPAC Name),
METSULFURON-METHYL: methyl 2-[[[(4-methoxy-6-methyl-1,3,5-triazine-2-yl)aminocarbonyl]aminosulfonyl]benzoate (CAS name); methyl 2-(4-methoxy-6-methyl-1,3,5-triazine-2-ylcarbamoylsulfamoyl)benzoate (IUPAC name)

Active Ingredient(s) Chlorsulfuron, Metsulfuron-methyl

Chemical Family Sulfonylurea

Recommended use of the chemical and restrictions on use

Recommended Use: Herbicide

Restrictions on Use: Use as recommended by the label

Supplier Address

FMC Corporation
2929 Walnut Street
Philadelphia, PA 19104
(215) 299-6000 (General Information)
msdsinfo@fmc.com (E-Mail General Information)

Emergency telephone number

For leak, fire, spill or accident emergencies, call:
1 800 / 424 9300 (CHEMTREC - U.S.A.)
1 703 / 741-5970 (CHEMTREC - International)
1 703 / 527 3887 (CHEMTREC - Alternate)

Medical Emergencies:
1 800 / 331-3148 (ProPharma Group - U.S.A. & Canada)
1 651 / 632-6793 (ProPharma Group - All Other Countries - Collect)

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Serious eye damage/eye irritation	Category 2B

GHS Label elements, including precautionary statements

EMERGENCY OVERVIEW

Warning

Hazard Statements

H332 - Harmful if inhaled
H320 - Causes eye irritation
H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects



Precautionary Statements - Prevention

P260 - Do not breathe dust/fume/gas/mist/vapors/spray
P271 - Use only outdoors or in a well-ventilated area
P264 - Wash hands thoroughly after handling
P273 - Avoid release to the environment

Precautionary Statements - Response

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P337 + P313 - If eye irritation persists: Get medical advice/ attention
P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing
P310 - Immediately call a POISON CENTER or doctor
P391 - Collect spillage

Precautionary Statements - Storage

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed
P405 - Store locked up

Precautionary Statements - Disposal

P501 - Dispose of contents/container according to label directions

Hazards not otherwise classified (HNOC)

No hazards not otherwise classified were identified.

Other Information

Very toxic to aquatic life with long lasting effects.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Family Sulfonylurea.

Chemical name	CAS-No	Weight %
Chlorsulfuron	64902-72-3	60-100
Metsulfuron-methyl	74223-64-6	10-30

Synonyms are provided in Section 1.

4. FIRST AID MEASURES

Eye Contact	Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for further treatment advice.
Skin Contact	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for further treatment advice.
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 further treatment advice.
Ingestion	Clean mouth with water and afterwards drink plenty of water. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person. Call a poison control center or doctor immediately for treatment advice.
Most important symptoms and effects, both acute and delayed	<p>Inhalation : Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and cough. May cause irritation of respiratory tract.</p> <p>Skin : May cause mild skin irritation. Symptoms may include redness, itching and swelling. Prolonged contact, such as when trapped against the skin under clothing or jewelry, may be more irritating.</p> <p>Eyes : May cause mild eye irritation. Inert particles may cause mechanical irritation of the eyes, including scratches.</p> <p>Ingestion : May cause gastrointestinal discomfort.</p>
Indication of immediate medical attention and special treatment needed, if necessary	Treat symptomatically

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	Dry chemical, CO2, water spray or regular foam. Avoid heavy hose streams.
Specific Hazards Arising from the Chemical	Closed containers may rupture violently under fire conditions. Fine dust dispersed in air may ignite: Not flammable
Hazardous Combustion Products	Carbon oxides (COx), Sulfur oxides, Nitrogen oxides (NOx).
<u>Explosion data</u>	
Sensitivity to Mechanical Impact	Not expected to be sensitive to mechanical impact.
Sensitivity to Static Discharge	Not expected to be sensitive to static discharge.
Protective equipment and precautions for firefighters	As in any fire, wear self-contained breathing apparatus and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Isolate and post spill area. Remove all sources of ignition. Wear suitable protective clothing, gloves 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	Prevent further leakage or spillage if safe to do so. Avoid dust formation.

Methods for cleaning up Sweep up and shovel into suitable containers for disposal. Clean and neutralize spill area, tools and equipment by washing with water and soap. Absorb rinsate and add to the collected waste. Waste must be classified and labeled prior to recycling or disposal. Dispose of waste as indicated in Section 13.

7. HANDLING AND STORAGE

Handling This material is a harmful solid. Handle in accordance with good industrial hygiene and safety practice. Keep in a well-ventilated place. Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not breathe vapors/dust. Keep away from open flames, hot surfaces and sources of ignition. Keep container tightly closed. Wash thoroughly after handling.

Storage Keep in a dry, cool and well-ventilated place. Keep away from incompatible materials. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking in the area.

Incompatible products Strong oxidizing agents, Acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls

Engineering measures Apply technical measures to comply with the occupational exposure limits. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Safety glasses with side-shields, Tightly fitting safety goggles, Face-shield. Provide emergency on-site eyewash.

Skin and Body Protection Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Hand Protection Impervious gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion and the contact time.

Respiratory Protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

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

General information If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Granules
Physical State	Solid
Color	Off-white
Odor	Nearly odorless
Odor threshold	No information available
pH	5.5
Melting point/freezing point	162-173 °C / 324-343 °F
Boiling Point/Range	Decomposes
Flash point	Not applicable
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	Chlorsulfuron: 3.07×10^{-6} mPa @ 25° C Metsulfuron-methyl: 1.10×10^{-7} mPa @ 25° C
Vapor density	No information available
Density	No information available
Specific gravity	No information available
Water solubility	(in water @ 20° C) Metsulfuron-methyl: 2790 mg/l Chlorsulfuron: 12500 mg/l
Solubility in other solvents	No information available
Partition coefficient	Chlorsulfuron: Log P = -0.99 Metsulfuron-methyl: Log P = -1.7
Autoignition temperature	No information available
Decomposition temperature	No information available
Viscosity, kinematic	No information available
Viscosity, dynamic	No information available
Explosive properties	No information available
Oxidizing properties	No information available
Molecular weight	No information available
Bulk density	No information available

10. STABILITY AND REACTIVITY

Reactivity	None under normal use conditions
Chemical Stability	Stable under recommended storage conditions.
Possibility of Hazardous Reactions	None under normal processing.
Hazardous polymerization	Hazardous polymerization does not occur.
Conditions to avoid	Keep away from open flames, hot surfaces and sources of ignition
Incompatible materials	Strong oxidizing agents, Acids.
Hazardous Decomposition Products	See Section 5 for more information.

11. TOXICOLOGICAL INFORMATION

Product Information

LD50 Oral	5000 mg/kg (rat)
LD50 Dermal	> 5000 mg/kg (rat)
LC50 Inhalation	> 2.15 mg/L 4 hr
Serious eye damage/eye irritation	Irritating to eyes.
Skin corrosion/irritation	Irritating to skin.
Sensitization	Not expected to be sensitizing based on the components.

Information on toxicological effects

Symptoms	Inhalation : Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and cough. May cause irritation of respiratory tract.
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Skin : May cause mild skin irritation. Symptoms may include redness, itching and swelling. Prolonged contact, such as when trapped against the skin under clothing or jewelry, may be more irritating.

Eyes : May cause mild eye irritation. Inert particles may cause mechanical irritation of the eyes, including scratches.

Ingestion : May cause gastrointestinal discomfort.

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

Mutagenicity	Not expected to be mutagenic in humans
Carcinogenicity	Not recognized as carcinogenic by Research Agencies (IARC, NTP, OSHA, ACGIH)
Reproductive toxicity	Not expected to have reproductive effects.
Teratogenicity	Not expected to be a teratogen.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Target organ effects	Eyes, Skin, Respiratory System.
Aspiration hazard	No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Metsulfuron-methyl Technical:

Fish – 96-Hr LC50, Rainbow Trout (*Salmo gairdneri*) = >150 mg/L

Invertebrates – 48-hr LC50, Daphnids (*Daphnia magna*) = >150 mg/L

Bees –LD50, oral, Bees (*Apis mellifera*) = >25 µg/bee

Plants –14-day EC50, Swollen Duckweed (*Lemna gibba*) = 0.36 µg/L

Algae – EC50, Green Algae (*Pseudokirchneriella subcapitata*) = 0.045 mg/L

Chlorsulfuron Technical:

Fish – 96-Hr LC50, Rainbow Trout (*Salmo gairdneri*) = >250 mg/L

Invertebrates – 48-hr EC50, Daphnids (*Daphnia magna*) = >370 mg/L

Bees –LD50, oral, Bees (*Apis mellifera*) = 25 µg/bee

Plants –EC50, Duckweed (*Lemna minor*) = 0.35 µg/L

Algae – EC50, Green Algae (*Pseudokirchneriella subcapitata*) = 0.055 µg/L

3.21299% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Persistence and degradability No information available.

Bioaccumulation No information available.

Mobility No information available.

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 Packaging Containers must be disposed of in accordance with local, state and federal regulations. Refer to the product label for container disposal instructions.

14. TRANSPORT INFORMATION

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DOT NOT REGULATED

TDG NOT REGULATED

ICAO/IATA NOT REGULATED

IMDG/IMO NOT REGULATED

15. REGULATORY INFORMATION**U.S. Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical name	CAS-No	Weight %	SARA 313 - Threshold Values %
Chlorsulfuron - 64902-72-3	64902-72-3	60-100	1.0

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic health hazard	Yes
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Formaldehyde 50-00-0	100 lb			X
Naphthalene 91-20-3	100 lb	X	X	X

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Formaldehyde 50-00-0	100 lb 45.4 kg	100 lb
Naphthalene 91-20-3	100 lb 45.4 kg	

FIFRA Information

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

Causes moderate eye irritation.

Harmful if absorbed through skin.

Harmful if swallowed.

Avoid contact with eyes, skin or clothing.

Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco.

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Chlorsulfuron 64902-72-3	X		

International Inventories

Chemical name	TSCA (United States)	DSL (Canada)	EINECS/ELINC S (Europe)	ENCS (Japan)	China (IECSC)	KECL (Korea)	PICCS (Philippines)	AICS (Australia)
Chlorsulfuron 64902-72-3			X		X			X
Metsulfuron-methyl 74223-64-6					X			

Chemical name	Mexico - Pollutant Release and Transfer Register - Reporting Emissions for Fabrication, Process or Use -Threshold Quantities	Pollutant Release and Transfer Register - Reporting Emissions - Threshold Quantities
Formaldehyde	100 2500 kg/yr	100 kg/yr

WHMIS Statement

This product has been classified in accordance with the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

WHMIS Hazard Class

See section 2 for more information

16. OTHER INFORMATION

NFPA	Health Hazards 2	Flammability 1	Instability 0	Special Hazards -
HMIS	Health Hazards 2*	Flammability 1	Physical hazard 0	Personal Protection X

*Indicates a chronic health hazard.

NFPA/HMIS Ratings Legend

Severe = 4; Serious = 3; Moderate = 2; Slight = 1; Minimal = 0

Revision date:

2017-10-12

Reason for revision:

Format Change

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End of Safety Data Sheet