

SAFETY DATA SHEET
STANZA HERBICIDE

SDS # : 7592-A
Revision date: 2016-05-26
Format: NA
Version 1.03



1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name STANZA HERBICIDE

Other means of identification

Product Code(s) 7592-A

Active Ingredient(s) Clopyralid, Flumetsulam

Recommended use of the chemical and restrictions on use

Recommended Use: Herbicide

Restrictions on Use: Use as recommended by the label

Manufacturer 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 / 527 3887 (CHEMTREC - Collect - All Other Countries)

Medical Emergencies:
1 800 / 331-3148 (PROSAR - U.S.A. & Canada)
1 651 / 632-6793 (PROSAR - 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)

Serious eye damage/eye irritation	Category 2A
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GHS Label elements, including precautionary statements

EMERGENCY OVERVIEW

Warning

Hazard Statements

H319 - Causes serious eye irritation

**Precautionary Statements - Prevention**

P264 - Wash face, hands and any exposed skin thoroughly after handling

P280 - Wear eye protection/ face protection

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

Hazards not otherwise classified (HNOC)

No hazards not otherwise classified were identified.

Other Information

No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS-No	Weight %
Clopyralid Potassium Salt	58509-83-4	60
Flumetsulam	98967-40-9	18.5
Starch	9005-25-8	3

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, contact emergency medical services, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

Ingestion

Call a poison control center or doctor immediately for treatment advice. 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.

Most important symptoms and effects, both acute and delayed

None known.

Indication of immediate medical attention and special treatment needed, if necessary

. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient. Have the safety data sheet, product container and/or product label with you when calling a poison control center or doctor or going for treatment.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Water fog, foam, carbon dioxide, dry chemical.

Specific Hazards Arising from the Chemical

Explosion data

Sensitivity to Mechanical Impact Not sensitive.

Sensitivity to Static Discharge Not sensitive.

Protective equipment and precautions for firefighters

Toxic, irritating gases may be formed under fire conditions. Prevent runoff from fire control from entering streams, sewers, or drinking water supply. Use self-contained pressure-demand breathing apparatus if needed to prevent exposure to smoke or airborne toxins. As in any fire, wear firefighters bunker 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

See Section 12 for additional Ecological Information.

Methods for Containment

Use a wet sweeping compound or water to prevent dust formation. Sweep up and shovel into suitable containers for disposal.

Methods for cleaning up

Clean and neutralize spill area, tools and equipment by washing with bleach 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

Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal.

Storage

Keep in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Keep out of reach of children and animals. Keep/store only in original container.

Incompatible products

Aluminium

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

3,6-Dichloropicolinic acid (clopyralid): 10 mg per cubic meter; Flumetsulam: 3 mg per cubic meter

Chemical name	ACGIH TLV	OSHA PEL	NIOSH	Mexico
Starch (9005-25-8)	TWA: 10 mg/m ³	TWA: 15 mg/m ³ TWA: 5 mg/m ³	TWA: 10 mg/m ³ TWA: 5 mg/m ³	-
Chemical name	British Columbia	Quebec	Ontario TWAEV	Alberta
Starch (9005-25-8)	TWA: 10 mg/m ³ TWA: 3 mg/m ³	TWA: 10 mg/m ³	TWA: 10 mg/m ³	TWA: 10 mg/m ³

Appropriate engineering controls

Engineering measures

Ensure adequate ventilation. Apply technical measures to comply with the occupational exposure limits. Use with local exhaust ventilation.

Individual protection measures, such as personal protective equipment

Eye/Face Protection

For dust, splash, mist or spray exposure, wear chemical protective goggles.

Skin and Body Protection

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

Hand Protection	Use gloves if extended exposure is anticipated. Neoprene gloves, PVC gloves.
Respiratory Protection	For dust, splash, mist or spray exposures wear a filtering mask.
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.
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	Brown Granules
Physical State	Granules
Color	No information available
Odor	Characteristic
Odor threshold	No information available
pH	No information available
Melting point/freezing point	148-151 °C (based on active ingredient)
Boiling Point/Range	No information available
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	No information available
Vapor density	No information available
Density	No information available
Specific gravity	No information available
Water solubility	Dispersible in water
Solubility in other solvents	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
Explosive properties	No information available
Oxidizing properties	No information available
Molecular weight	No information available
Bulk density	0.526 g/mL

10. STABILITY AND REACTIVITY

Reactivity	Not applicable
Chemical Stability	Stable under normal conditions.
Possibility of Hazardous Reactions	None under normal processing.
Hazardous polymerization	Hazardous polymerization does not occur.
Conditions to avoid	Clopyralid can react violently with aluminum above 110°C (230°F) when water is present. Avoid contact with aluminum
Incompatible materials	Aluminium.
Hazardous Decomposition Products	May emit toxic fumes under fire conditions - carbon monoxide, carbon dioxide, nitrogen oxides, and hydrogen chloride.

11. TOXICOLOGICAL INFORMATION

Product Information

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LD50 Oral > 5000 mg/kg (rat).
LD50 Dermal > 5000 2000 mg/kg (rabbit).
LC50 Inhalation > 5.21 mg/L 4 hr (rat) (dust).

Serious eye damage/eye irritation May cause severe eye irritation with corneal injury.
Skin corrosion/irritation Minimally irritating.
Sensitization Did not cause sensitization on laboratory animals

Information on toxicological effects

Symptoms Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

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

Chronic toxicity Flumetsulam: In animals, effects have been reported on the liver and kidney.
Mutagenicity Flumetsulam: Not genotoxic in laboratory studies.
Carcinogenicity Flumetsulam: Not recognized as carcinogenic by Research Agencies (IARC, NTP, OSHA, ACGIH).
Reproductive toxicity Flumetsulam: No toxicity to reproduction in animal studies.
Developmental toxicity Flumetsulam: Not teratogenic in animal studies.
STOT - single exposure Not classified.
STOT - repeated exposure Not classified.
Target organ effects Liver, Kidney
Aspiration hazard No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Clopyralid Potassium Salt (58509-83-4)				
Active Ingredient(s)	Duration	Species	Value	Units
Clopyralid	96 h LC50	Rainbow trout	700	mg/L

Flumetsulam (98967-40-9)				
Active Ingredient(s)	Duration	Species	Value	Units
	72 h EC50	Algae	>0.030	mg/L
	EC50 48 hr immobilisation test	Daphnia magna Water flea	>122	mg/L
	LD50	Bee	>100	µg/bee
	LD50	Bobwhite quail	>2000	mg/kg
	96 h LC50	Oncorhynchus mykiss (rainbow trout)	>122	mg/L
	LC50	Earthworm	>1000	mg/kg

Persistence and degradability Flumetsulam: Not readily biodegradable.
Bioaccumulation Clopyralid, Flumetsulam: The substance does not have a potential for bioconcentration.
Mobility Flumetsulam: Immobile; Not expected to reach groundwater.

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.
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

<u>DOT</u>	This material is not a hazardous material as defined by U.S. Department of Transportation at 49 CFR Parts 100 through 185.
<u>TDG</u>	Classification below is only applicable when shipped by vessel and is not applicable when shipped by road or rail only.
UN/ID no	UN3077
Proper Shipping Name	Environmentally hazardous substance, solid, n.o.s.
Hazard class	9
Packing Group	III
Description	UN3077, Environmentally hazardous substance, solid, n.o.s. (Clopyralid Potassium Salt, Flumetsulam), 9, III, Marine Pollutant
<u>ICAO/IATA</u>	
UN/ID no	UN3077
Proper Shipping Name	Environmentally hazardous substance, solid, n.o.s.
Hazard class	9
Packing Group	III
Description	UN3077, Environmentally hazardous substance, solid, n.o.s. (Clopyralid Potassium Salt, Flumetsulam), 9, III, Marine Pollutant
<u>IMDG/IMO</u>	
UN/ID no	UN3077
Proper Shipping Name	Environmentally hazardous substance, solid, n.o.s.
Hazard class	9
Packing Group	III
EmS No.	F-A, S-F
Description	UN3077, Environmentally hazardous substance, solid, n.o.s. (Clopyralid Potassium Salt, Flumetsulam), 9, III, Marine Pollutant

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 does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

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 does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

FIFRA Information

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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:

DANGER

Causes irreversible eye damage.

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

This product does not contain any substances regulated by state right-to-know regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Starch 9005-25-8		X	X

International Inventories

Chemical name	TSCA (United States)	DSL (Canada)	EINECS/ELINC S (Europe)	ENCS (Japan)	China (IECSC)	KECL (Korea)	PICCS (Philippines)	AICS (Australia)
Clopyralid Potassium Salt 58509-83-4			X					
Starch 9005-25-8	X	X	X	X	X	X	X	X

Mexico - Grade

Serious risk, Grade 3

WHMIS Hazard Class

D2B - Toxic materials



16. OTHER INFORMATION

NFPA	Health Hazards 3	Flammability 1	Instability 0	Special Hazards -
HMIS	Health Hazards 3	Flammability 1	Physical hazard 0	Personal Protection X

Revision date: 2016-05-26
Reason for revision: Initial Release

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Prepared By:

End of Safety Data Sheet