



SAFETY DATA SHEET
AUTHORITY NXT (Clomazone 30% + Sulfentrazone 28% WP)

SDS # : FO004350-A
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Version 1

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name AUTHORITY NXT (Clomazone 30% + Sulfentrazone 28% WP)
Product Code(s) FO004350-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 022-6704 5504 / 5404

Section 2: HAZARDS IDENTIFICATION

GHS Classification

Acute toxicity - Oral	Category 5
Serious eye damage/eye irritation	Category 2A
Acute aquatic toxicity	Category 1
Chronic aquatic toxicity	Category 1

Label Elements



Signal Word

Warning

Hazard Statements

H303 - May be harmful if swallowed
H319 - Causes serious eye irritation
H410 - Very toxic to aquatic life with long lasting effects

Precautionary Statements - Prevention

P264 - Wash hands thoroughly after handling
P280 - Wear eye protection/ face protection
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
 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 %
Clomazone	81777-89-1	30
Sulfentrazone	122836-35-5	28
Sodium lignosulfonate	8061-51-6	5-10
Synthetic amorphous silica	112926-00-8	20-30

Section 4: FIRST AID MEASURES

Inhalation	Move to fresh air. If breathing is difficult, give oxygen. Artificial respiration and/or oxygen may be necessary. Consult a physician.
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention if irritation develops and persists.
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention immediately if irritation persists.
Ingestion	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.
Most important symptoms and effects, both acute and delayed	Headache, giddiness, vertigo, nausea, vomiting, blurred vision, sweating, excessive lacrimation and salivation.
Indication of immediate medical attention and special treatment needed, if necessary	If ingested, give gastric lavage with care to prevent aspiration. Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES

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

Personal Precautions	Isolate and post spill area. Remove all sources of ignition. Wear protective gloves/clothing and eye/face protection. For personal protection see section 8.
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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 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.

Methods for cleaning up 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

Handling 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.

Storage 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.

Materials to avoid Strong oxidizing agents, Strong acids, Strong bases.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

Component	China	Japan	Korea	Australia	Taiwan
Synthetic amorphous silica 112926-00-8 (20-30)	TWA: 5 mg/m ³ STEL: 10 mg/m ³		TWA: 10 mg/m ³	TWA 10 mg/m ³	

Engineering measures 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.

Personal protective equipment

Respiratory Protection 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.

Hand Protection Wear chemical protective gloves made of materials such as nitrile or neoprene.

Eye/Face Protection For dust, splash, mist or spray exposure, wear chemical protective goggles. Maintain eye wash fountain and quick-drench facilities in work area.

Skin and Body Protection Wear long-sleeved shirt, long pants, socks, and shoes.

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.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State Solid
Appearance Homogeneous powder

Odor	No information available
Color	Off-white
Odor threshold	No information available
pH	7.5 - 9
Melting point/freezing point	No information available
Boiling Point/Range	No information available
Flash point	No information available
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	Dispersible in water
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	0.29 to 0.32 (pour) 0.38 to 0.42 (Tap)

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	>2000 - <5000 mg/kg (rat) (Method: OECD 423)
LD50 Dermal	> 2000 mg/kg (rat) (Method: OECD 402)
LC50 Inhalation (dust)	> 3.04 mg/L 4 hr (rat) - Maximum attainable concentration (zero mortality) (Method: OECD 403)

Skin corrosion/irritation	No skin irritation. (rabbit). (Method: OECD 404).
Serious eye damage/eye irritation	Irritating to eyes. (rabbit). (Method: OECD 405).
Sensitization	Guinea pig. Non-sensitizer. (Method: OECD 406).

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.
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Carcinogenicity
Reproductive toxicity
STOT - single exposure
STOT - repeated exposure

There are no known carcinogenic chemicals in this product
 This product does not contain any known or suspected reproductive hazards.
 Clomazone: No specific effects after single exposure have been observed.
 Clomazone:
 Target organ: liver
 LOAEL: 4000 ppm (400 mg/kg bw/day) in a 90-day rat study (method OECD 408). At this dose level, increased liver weight and increased cholesterol were seen.

Chronic toxicity
Aspiration hazard

Sulfentrazone:
 Target organs: nervous system and development of offspring
 LOAEL: 33 mg/kg bw/day in a 2 generation development study, based on decreased body weight of offspring.
 Prolonged exposure may cause chronic effects.
 The product does not present an aspiration pneumonia hazard.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

The environmental impact of this product has not been fully investigated.

Clomazone (81777-89-1)				
Active Ingredient(s)	Duration	Species	Value	Units
Clomazone	72 h EC50	Algae	0.136	mg/L
	48 h EC50	Crustacea	12.7	mg/L
	96 h LC50	Fish	15.5	mg/L
	21 d NOEC	Fish	2.30	mg/L
	21 d NOEC	Crustacea	2.2	mg/L
	96 h NOEC	Algae	0.05	mg/L

Sulfentrazone (122836-35-5)				
Active Ingredient(s)	Duration	Species	Value	Units
Sulfentrazone	72 h EC50	Algae	32.8	mg/L
	48 h EC50	Crustacea	60.4	mg/L
	96 h LC50	Fish	94	mg/L
	21 d NOEC	Fish	5.9	mg/L
	21 d NOEC	Crustacea	0.51	mg/L

Birds: LD50 oral: > 2000 mg/kg (Chicken, Gallus gallus)(Method: OECD 223)
 LD50 oral: > 2000 mg/kg (Pigeon, Columba livia) (Method: OECD 223)

Bees: 48 h LD50 oral: > 200 µg/bee (Apis indica) (Method: OECD 213)
 48 h LD50 contact: > 200 µg/bee (Apis indica) (Method: OECD 214)

Fish: 96 h LC50: 38.17 mg/L (Cyprinus carpio) (Method: OECD 203)

Persistence and degradability Clomazone: Moderately persistent. Does not readily hydrolyze. Not readily biodegradable.
 Sulfentrazone: Not readily biodegradable.

Bioaccumulation Clomazone: The substance has a low potential to bioaccumulate in the environment.
 Sulfentrazone: Bioaccumulation is unlikely.

Mobility Clomazone: Moderately mobile.
 Sulfentrazone: The substance has a potential for being mobile in the environment.

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 UN3077
Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Clomazone and Sulfentrazone)
Hazard class 9
Packing Group III
EmS No. F-A, S-F
Marine Pollutant Yes

ICAO/IATA

UN/ID no UN3077
Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Clomazone and Sulfentrazone)
Hazard class 9
Packing Group III
Marine Pollutant 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)
Clomazone 81777-89-1					X	X		
Sodium lignosulfonate 8061-51-6	X	X		X	X	X	X	X
Synthetic amorphous silica 112926-00-8		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

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End of Safety Data Sheet