

# SAFETY DATA SHEET

according to the Globally Harmonized System



## AUTHORITY NXT

Version	Revision Date:	SDS Number:	Date of last issue: -
1.1	20.05.2025	50002174	Date of first issue: 25.03.2020

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### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : AUTHORITY NXT

Other means of identification : CLOMAZONE + SULFENTRAZONE 30/28 W/W% WP

#### Manufacturer or supplier's details

Company : FMC India Private Limited

Address : TCG Financial Centre, 2nd Floor, C-53,  
Bandra Kurla Complex,  
Bandra (E), Mumbai, Maharashtra-400098  
India

E-mail address : SDS-Info@fmc.com

Emergency telephone : 022 6704 5504/5404  
000-800-100-7141 (CHEMTREC)

Medical Emergency Number : 022 6704 5504/5404

#### Recommended use of the chemical and restrictions on use

Recommended use : Herbicide

Restrictions on use : Use as recommended by the label.

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### 2. HAZARDS IDENTIFICATION

#### Manufacture, Storage and Import of Hazardous Chemicals Rules 1989

##### Classification

Not classified as hazardous according to criteria laid down in Part I of Schedule-1.

##### GHS Classification

Acute toxicity (Oral) : Category 5

Acute toxicity (Inhalation) : Category 4

Acute toxicity (Dermal) : Category 5

Serious eye damage/eye irritation : Category 2A

Reproductive toxicity : Category 2

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Specific target organ toxicity - repeated exposure : Category 2 (hematopoietic system, Nervous system)

Specific target organ toxicity - repeated exposure (Inhalation) : Category 2 (inner ear)

Short-term (acute) aquatic hazard : Category 3

Long-term (chronic) aquatic hazard : Category 1

### GHS label elements

Hazard pictograms : 

Signal Word : WARNING

Hazard Statements : H303 + H313 May be harmful if swallowed or in contact with skin.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.  
H361 Suspected of damaging fertility or the unborn child.  
H373 May cause damage to organs (hematopoietic system, Nervous system) through prolonged or repeated exposure.  
H373 May cause damage to organs (inner ear) through prolonged or repeated exposure if inhaled.  
H402 Harmful to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements : **Prevention:**  
P203 Obtain, read and follow all safety instructions before use.  
P260 Do not breathe dust.  
P264+P265 Wash hands thoroughly after handling. Do not touch eyes.  
P271 Use only outdoors or with adequate ventilation.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.  
**Response:**  
P301 + P337 + P317 IF SWALLOWED or if eye irritation persists: Get medical help.  
P302 + P352 + P317 IF ON SKIN: Wash with plenty of water. Get medical help.  
P304 + P340 + P317 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical help.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

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easy to do. Continue rinsing.  
P318 IF exposed or concerned, get medical advice.  
P391 Collect spillage.

### Storage:

P405 Store locked up.

### Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

### Other hazards which do not result in classification

None known.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

### Components

Chemical name	CAS-No.	Concentration (% w/w)
clomazone (ISO)	81777-89-1	$\geq 25 - < 30$
Sulfentrazone	122836-35-5	$\geq 25 - < 30$
sodium carbonate	497-19-8	$\geq 1 - < 10$
sodium dodecylbenzenesulfonate	25155-30-0	$\geq 2.5 - < 3$
toluene	108-88-3	$\geq 1 - < 2.5$

## 4. FIRST AID MEASURES

General advice : Move out of dangerous area.  
Show this material safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.

If inhaled : If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.

In case of skin contact : Wash off with soap and water.  
Get medical attention if irritation develops and persists.

In case of eye contact : Immediately flush eye(s) with plenty of water.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.

If swallowed : Induce vomiting immediately and call a physician.  
Keep respiratory tract clear.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.

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Take victim immediately to hospital.

Most important symptoms and effects, both acute and delayed : May be harmful if swallowed or in contact with skin.  
Causes serious eye irritation.  
Harmful if inhaled.  
Suspected of damaging fertility or the unborn child.  
May cause damage to organs through prolonged or repeated exposure.

Notes to physician : Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Dry chemical, CO<sub>2</sub>, water spray or regular foam.

Unsuitable extinguishing media : High volume water jet

Specific hazards during fire fighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Fire may produce irritating, corrosive and/or toxic gases.  
Chlorinated compounds  
Fluorinated compounds  
Sulfur oxides  
Nitrogen oxides (NO<sub>x</sub>)  
Carbon oxides  
Hydrogen cyanide  
Hydrogen chloride

Specific extinguishing methods : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Avoid dust formation.  
Avoid breathing dust.

Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Keep in suitable, closed containers for disposal.

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### 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Avoid dust formation.  
Provide appropriate exhaust ventilation at places where dust is formed.
- Advice on safe handling : Avoid formation of respirable particles.  
Do not breathe vapors/dust.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Dispose of rinse water in accordance with local and national regulations.
- Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Observe label precautions.  
Electrical installations / working materials must comply with the technological safety standards.
- Further information on storage stability : Keep in a dry place.  
No decomposition if stored and applied as directed.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
toluene	108-88-3	TWA	100 ppm 375 mg/m <sup>3</sup>	IN OEL
		STEL	150 ppm 560 mg/m <sup>3</sup>	IN OEL
		TWA	20 ppm	ACGIH

#### Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
toluene	108-88-3	Toluene	In blood	Prior to last shift of work-week	0.02 mg/l	ACGIH BEI
		Toluene	Urine	End of shift (As)	0.03 mg/l	ACGIH BEI

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				soon as possible after exposure ceases)		
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### Personal protective equipment

- Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.
- Filter type : Particulates type
- Hand protection  
Material : Wear chemical resistant gloves, such as barrier laminate, butyl rubber or nitrile rubber.
- Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- Eye protection : Eye wash bottle with pure water  
Tightly fitting safety goggles  
Wear face-shield and protective suit for abnormal processing problems.
- Skin and body protection : Dust impervious protective suit  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Protective measures : Always have on hand a first-aid kit, together with proper instructions.
- Hygiene measures : When using do not eat or drink.  
When using do not smoke.  
Wash hands before breaks and at the end of workday.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical state : solid
- Form : powder
- Color : off-white
- pH : 6 - 7  
(at 1% suspension)
- Melting point/freezing point : No data available

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Boiling point/boiling range	: No data available
Flammability (solid, gas)	: Not expected to be ignitable
Self-ignition	: No data available
Relative density	: 0.98 - 0.995
Bulk density	: 0.29 - 0.32 kg/m <sup>3</sup> Pour density 0.38 - 0.42 kg/m <sup>3</sup> Tap density
Solubility(ies) Water solubility	: soluble
Partition coefficient: n-octanol/water	: Not applicable
Viscosity Viscosity, kinematic	: Not applicable
Explosive properties	: Not explosive
Oxidizing properties	: Non-oxidizing

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### 10. STABILITY AND REACTIVITY

Reactivity	: No decomposition if stored and applied as directed.
Chemical stability	: No decomposition if stored and applied as directed.
Possibility of hazardous reactions	: No decomposition if stored and applied as directed. Dust may form explosive mixture in air.
Conditions to avoid	: Heat, flames and sparks.
Incompatible materials	: Strong acids and strong bases Strong oxidizing agents
Hazardous decomposition products	: No hazardous decomposition products are known.

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### 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

May be harmful if swallowed or in contact with skin.  
Harmful if inhaled.

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### **Product:**

Acute oral toxicity : LD50(Rat, female): > 2,000 mg/kg  
Method: OECD Test Guideline 423

Acute inhalation toxicity : LC50(Rat, male and female): > 3.04 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50(Rat, male and female): > 2,000 mg/kg  
Method: OECD Test Guideline 402

### **Components:**

#### **clomazone (ISO):**

Acute oral toxicity : LD50 (Rat, female): 768 mg/kg  
Method: OECD Test Guideline 425

LD50 (Rat, female): 300 - 2,000 mg/kg  
Method: OECD Test Guideline 423  
Target Organs: Liver  
Assessment: The component/mixture is moderately toxic after single ingestion.

LD50 (Rat, female): 1,564 mg/kg  
Symptoms: ataxia

Acute inhalation toxicity : LC50 (Rat): > 5.02 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403

LC50 (Rat, female): 4.23 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: EPA OPP 81 - 3  
Symptoms: Breathing difficulties

Acute dermal toxicity : LD50 (Rabbit, male and female): > 2,000 mg/kg  
Method: US EPA Test Guideline OPP 81-2  
Assessment: The component/mixture is minimally toxic after single contact with skin.  
Remarks: no mortality

#### **Sulfentrazone:**

Acute oral toxicity : LD50 (Rat, female): 2,689 mg/kg  
Symptoms: ataxia, clonic convulsions, Fatality  
GLP: yes

Acute inhalation toxicity : LC50 (Rat, male and female): > 4.13 mg/l



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Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: EPA OPP 81 - 3  
Symptoms: ataxia, Breathing difficulties  
GLP: yes  
Remarks: no mortality

Acute dermal toxicity : LD50 (Rabbit, male and female): > 2,000 mg/kg  
Method: EPA OPP 81-2  
GLP: yes  
Assessment: The component/mixture is minimally toxic after single contact with skin.

### **sodium carbonate:**

Acute oral toxicity : LD50 (Rat, male and female): 2,800 mg/kg

Acute inhalation toxicity : LC50 (Rat, male): 2.3 mg/l  
Exposure time: 2 h  
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg  
Target Organs: Skin  
Symptoms: Erythema

### **sodium dodecylbenzenesulfonate:**

Acute oral toxicity : LD50 (Rat, male and female): 1,080 mg/kg  
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity

### **toluene:**

Acute oral toxicity : LD50 (Rat): 5,580 mg/kg

Acute inhalation toxicity : LC50 (Rat, male): 25.7 mg/l  
Exposure time: 4 h  
Test atmosphere: vapor

LC50 (Rat, female): 30 mg/l  
Exposure time: 4 h  
Test atmosphere: vapor

Acute dermal toxicity : (Rabbit): 12,267 mg/kg

### **Skin corrosion/irritation**

Based on available data, the classification criteria are not met.

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### **Product:**

Species	: Rabbit
Method	: OECD Test Guideline 404
Result	: No skin irritation
Remarks	: May cause skin irritation in susceptible persons.

### **Components:**

#### **clomazone (ISO):**

Species	: Rabbit
Assessment	: Not classified as irritant
Method	: OECD Test Guideline 404
Result	: slight or no skin irritation.

#### **Sulfentrazone:**

Species	: Rabbit
Assessment	: No skin irritation
Method	: EPA OPP 81-5
Result	: No skin irritation
GLP	: yes

#### **sodium carbonate:**

Species	: Rabbit
Exposure time	: 4 h
Method	: OECD Test Guideline 404
Result	: No skin irritation

#### **sodium dodecylbenzenesulfonate:**

Species	: Rabbit
Method	: OECD Test Guideline 404
Result	: Skin irritation

#### **toluene:**

Species	: Rabbit
Assessment	: Repeated exposure may cause skin dryness or cracking.
Result	: Skin irritation

### **Serious eye damage/eye irritation**

Causes serious eye irritation.

### **Product:**

Species	: Rabbit
Method	: OECD Test Guideline 405
Result	: Eye irritation

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Remarks : May cause irreversible eye damage.

### **Components:**

#### **clomazone (ISO):**

Species	: Rabbit
Assessment	: Not classified as irritant
Method	: OECD Test Guideline 405
Result	: Slight or no eye irritation
GLP	: yes

#### **Sulfentrazone:**

Species	: Rabbit
Assessment	: No eye irritation
Method	: EPA OPP 81-4
Result	: No eye irritation
GLP	: yes

#### **sodium carbonate:**

Species	: Rabbit
Result	: Irritation to eyes, reversing within 21 days

#### **sodium dodecylbenzenesulfonate:**

Species	: Rabbit
Method	: OECD Test Guideline 405
Result	: Irreversible effects on the eye

#### **toluene:**

Species	: Rabbit
Result	: No eye irritation

### **Respiratory or skin sensitization**

#### **Skin sensitization**

Based on available data, the classification criteria are not met.

#### **Respiratory sensitization**

Based on available data, the classification criteria are not met.

### **Product:**

Test Type	: Buehler Test
Routes of exposure	: Skin contact
Species	: Guinea pig
Method	: OECD Test Guideline 406
Result	: Not a skin sensitizer.

### **Components:**

#### **clomazone (ISO):**

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Species : Guinea pig  
Assessment : Not a skin sensitizer.  
Method : US EPA Test Guideline OPP 81-6  
Result : Not a skin sensitizer.

### **Sulfentrazone:**

Test Type : Maximization Test  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Does not cause skin sensitization.

### **sodium dodecylbenzenesulfonate:**

Test Type : Maximization Type  
Routes of exposure : Skin contact  
Species : Guinea pig  
Assessment : Does not cause skin sensitization.

### **toluene:**

Test Type : Maximization Type  
Species : Guinea pig  
Result : Not a skin sensitizer.

### **Germ cell mutagenicity**

Based on available data, the classification criteria are not met.

### **Components:**

#### **clomazone (ISO):**

Genotoxicity in vitro : Test Type: Ames test  
Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: yes  
  
Test system: Chinese hamster ovary cells  
Metabolic activation: with and without metabolic activation  
Result: negative

Genotoxicity in vivo : Test Type: Cytogenetic assay  
Species: Rat  
Method: OECD Test Guideline 473  
Result: negative

#### **Sulfentrazone:**

Genotoxicity in vitro : Test Type: Ames test  
Metabolic activation: with and without metabolic activation  
Result: negative  
  
Test Type: Mouse lymphoma assay

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Test system: mouse lymphoma cells  
Metabolic activation: Metabolic activation  
Result: negative

Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Mouse  
Application Route: Intraperitoneal injection  
Result: negative

Germ cell mutagenicity - Assessment : Animal testing did not show any mutagenic effects.

### **sodium carbonate:**

Genotoxicity in vitro : Test Type: reverse mutation assay  
Method: Mutagenicity (Salmonella typhimurium - reverse mutation assay)  
Result: negative  
Remarks: Based on data from similar materials

Germ cell mutagenicity - Assessment : Weight of evidence does not support classification as a germ cell mutagen.

### **sodium dodecylbenzenesulfonate:**

Genotoxicity in vitro : Test Type: reverse mutation assay  
Method: OECD Test Guideline 471  
Result: negative

Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Mouse (male and female)  
Application Route: Oral  
Method: OECD Test Guideline 474  
Result: negative

### **toluene:**

Genotoxicity in vitro : Test Type: Ames test  
Result: negative

Method: OECD Test Guideline 476  
Result: negative

Genotoxicity in vivo : Test Type: Chromosome aberration test in vitro  
Species: Rat  
Result: negative

### **Carcinogenicity**

Based on available data, the classification criteria are not met.

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### **Components:**

#### **clomazone (ISO):**

Species	:	Rat, male and female
Application Route	:	Oral
Exposure time	:	2 Years
Result	:	negative

Species	:	Mouse
Method	:	OECD Test Guideline 453
Result	:	negative

#### **Sulfentrazone:**

Species	:	Rat, male and female
Application Route	:	Ingestion
Exposure time	:	2 Years
Result	:	negative

Species	:	Mouse, male and female
Application Route	:	Ingestion
Exposure time	:	18 month(s)
Result	:	negative

Carcinogenicity - Assessment	:	Animal testing did not show any carcinogenic effects.
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#### **sodium dodecylbenzenesulfonate:**

Species	:	Rat, male and female
Application Route	:	Oral
Exposure time	:	2 years
Result	:	negative

### **Reproductive toxicity**

Suspected of damaging fertility or the unborn child.

### **Components:**

#### **clomazone (ISO):**

Effects on fertility	:	Test Type: Two-generation study Species: Rat, male and female Application Route: Oral Result: negative
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Effects on fetal development	:	Test Type: Embryo-fetal development Species: Rat Application Route: Oral Symptoms: Maternal effects. Result: negative
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	:	Test Type: Embryo-fetal development Species: Rabbit
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Application Route: Oral  
Symptoms: Maternal effects.  
Result: negative

### **Sulfentrazone:**

Effects on fertility : Test Type: Two-generation study  
Species: Rat, male and female  
Application Route: Oral  
General Toxicity Parent: NOEL: 13.7 - 16.2 mg/kg bw/day  
General Toxicity F1: NOEL: 13.7 - 16.2 mg/kg bw/day  
Symptoms: Maternal effects.

Effects on fetal development : Test Type: Embryo-fetal development  
Species: Rat  
Application Route: Oral  
General Toxicity Maternal: NOEL: 25 mg/kg bw/day  
Developmental Toxicity: NOEL: 10 mg/kg bw/day  
Method: EPA OPP 83-3

Test Type: Embryo-fetal development  
Species: Rat  
Application Route: Oral  
General Toxicity Maternal: LOAEL: 50 mg/kg bw/day  
Developmental Toxicity: LOAEL F1: 25 mg/kg bw/day  
Symptoms: Skeletal malformations.  
Target Organs: spleen  
Method: EPA OPP 83-3

### **sodium carbonate:**

Effects on fetal development : Species: Rat  
Application Route: Oral  
Dose: 2.45, 11.4, 52.9, 245 milligram per kilogram  
Duration of Single Treatment: 6 - 15 d  
General Toxicity Maternal: NOAEL: > 245 mg/kg body weight  
Teratogenicity: NOAEL: > 245 mg/kg body weight  
Result: negative

Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity

### **sodium dodecylbenzenesulfonate:**

Effects on fertility : Species: Rat, male and female  
Application Route: Oral  
Method: OECD Test Guideline 422  
Result: negative

Effects on fetal development : Species: Rat  
Application Route: Oral  
Method: OECD Test Guideline 422  
Result: negative

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### **toluene:**

Effects on fetal development : Species: Rat  
Application Route: Inhalation  
Result: Teratogenic effects.  
Remarks: Adverse developmental effects were observed

Reproductive toxicity - Assessment : Some evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments.

### **STOT-single exposure**

Based on available data, the classification criteria are not met.

### **Components:**

#### **Sulfentrazone:**

Remarks : No significant adverse effects were reported

#### **sodium dodecylbenzenesulfonate:**

Assessment : May cause respiratory irritation.

### **toluene:**

Assessment : May cause drowsiness or dizziness.

### **STOT-repeated exposure**

May cause damage to organs (hematopoietic system, Nervous system) through prolonged or repeated exposure.

May cause damage to organs (inner ear) through prolonged or repeated exposure if inhaled.

### **Components:**

#### **Sulfentrazone:**

Target Organs : hematopoietic system, Nervous system  
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

#### **sodium carbonate:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

### **toluene:**

Routes of exposure : Inhalation  
Target Organs : inner ear  
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.



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### Repeated dose toxicity

#### Components:

##### **clomazone (ISO):**

Species	: Rat, male and female
NOEL	: 1000 ppm
Application Route	: Oral
Exposure time	: 90 days
Symptoms	: increased liver weight

Species	: Rat
LOAEL	: 400 mg/kg
Exposure time	: 90 d
Method	: OECD Test Guideline 408
Symptoms	: Liver effects

##### **Sulfentrazone:**

Species	: Rat, male
NOAEL	: 19.9 mg/kg
LOAEL	: 65.8 mg/kg
Application Route	: Oral - feed
Exposure time	: 90-days
GLP	: yes
Target Organs	: hematopoietic system

Species	: Mouse, male
NOAEL	: 60 mg/kg
LOAEL	: 108.4 mg/kg
Application Route	: Oral - feed
Exposure time	: 90-days
Target Organs	: hematopoietic system

Species	: Dog, male
NOAEL	: 10 mg/kg
LOAEL	: 28 mg/kg
Application Route	: Oral - feed
Exposure time	: 90-days
Target Organs	: hematopoietic system, Liver

##### **sodium carbonate:**

Species	: Rat, male and female
NOAEL	: > 0.01 mg/kg
Application Route	: inhalation (dust/mist/fume)
Test atmosphere	: dust/mist

##### **sodium dodecylbenzenesulfonate:**

Species	: Rat, male and female
NOAEL	: 100 mg/kg
LOAEL	: 200 mg/kg
Application Route	: Oral

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Exposure time : 14 d  
Method : OECD Test Guideline 422

Species : Rat, male  
NOAEL : < 286 mg/kg  
LOAEL : 286 mg/kg

### **toluene:**

Species : Rat  
NOAEL : 625 mg/kg  
Application Route : Oral  
Symptoms : central nervous system effects

Species : Rat  
NOAEL : 0.098 mg/l  
Application Route : Inhalation  
Test atmosphere : vapor

Species : Rat  
LOAEL : 2.261 mg/l  
Application Route : Inhalation  
Test atmosphere : vapor

### **Aspiration toxicity**

Based on available data, the classification criteria are not met.

### **Components:**

#### **clomazone (ISO):**

The substance does not have properties associated with aspiration hazard potential.

#### **Sulfentrazone:**

The substance does not have properties associated with aspiration hazard potential.

### **toluene:**

May be fatal if swallowed and enters airways.

### **Neurological effects**

### **Components:**

#### **Sulfentrazone:**

Neurotoxicity observed in animals studies

### **Further information**

### **Product:**

Remarks : No data available

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### Components:

#### **clomazone (ISO):**

Remarks : When fed to animals, clomazone caused decreased activity, tearing eyes, bleeding from the nose and incoordination.

## 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

#### Product:

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): 38.17 mg/l  
Exposure time: 96 h  
Test Type: Static renewal test  
Method: OECD Test Guideline 203

Toxicity to terrestrial organisms : LD50: > 2,000 mg/kg  
End point: Acute oral toxicity  
Species: Columba livia (feral pigeon)  
Method: OECD Test Guideline 223

LD50: > 2,000 mg/kg  
End point: Acute oral toxicity  
Species: chicken  
Method: OECD Test Guideline 223

LD50: > 200 µg/bee  
Exposure time: 48 h  
End point: Acute contact toxicity  
Species: Honey Bee  
Method: OECD Test Guideline 214

LD50: > 200 µg/bee  
Exposure time: 48 h  
End point: Acute oral toxicity  
Species: Honey Bee  
Method: OECD Test Guideline 213

### Components:

#### **clomazone (ISO):**

Toxicity to fish : LC50 (Menidia beryllina (Silverside)): 6.3 mg/l  
Exposure time: 96 h  
  
LC50 (Oncorhynchus mykiss (rainbow trout)): > 45 mg/l  
Exposure time: 96 h

LC50 (Lepomis macrochirus (Bluegill sunfish)): 34 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 40.8 mg/l

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aquatic invertebrates

Exposure time: 48 h

EC50 (Daphnia): 5.2 mg/l  
Exposure time: 48 h

EC50 (Daphnia magna (Water flea)): 12.7 mg/l  
Exposure time: 48 h  
Test Type: static test

EC50 (Mysidopsis bahia (opossum shrimp)): 9.8 mg/l  
Exposure time: 48 h

LC50 (Americamysis bahia (mysid shrimp)): 0.57 mg/l  
Exposure time: 96 h  
Test Type: flow-through test

Toxicity to algae/aquatic plants

: EbC50 ( Selenastrum capricornutum (green algae)): 2 mg/l  
Exposure time: 72 h

ErC50 ( Selenastrum capricornutum (green algae)): 4.1 mg/l  
Exposure time: 72 h

ErC50 ( Navicula pelliculosa (Freshwater diatom)): 0.136 mg/l  
Exposure time: 120 h

EC50 ( Lemna gibba (duckweed)): 13.9 mg/l  
Exposure time: 7 d

NOEC ( Navicula pelliculosa (Freshwater diatom)): 0.05 mg/l  
End point: Growth rate  
Exposure time: 120 h

NOEC ( algae): 0.05 mg/l  
Exposure time: 96 h

EC50 ( Lemna gibba (duckweed)): 13.9 mg/l  
Exposure time: 7 d

EC50 ( algae): 0.136 mg/l  
Exposure time: 72 h

M-Factor (Acute aquatic toxicity) : 1

Toxicity to fish (Chronic toxicity)

: NOEC: 2.3 mg/l  
Exposure time: 21 d  
Species: Oncorhynchus mykiss (rainbow trout)  
Test Type: flow-through test

NOEC: 2.29 mg/l  
Exposure time: 57 d  
Species: Oncorhynchus mykiss (rainbow trout)

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Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 2.2 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)

NOEC: 0.032 mg/l  
Exposure time: 28 d  
Species: Americamysis bahia (mysid shrimp)  
Test Type: flow-through test

NOEC: 1.25 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Test Type: static test

M-Factor (Chronic aquatic toxicity) : 1

Toxicity to soil dwelling organisms : LC50: 156 mg/kg  
Exposure time: 14 d  
Species: Eisenia fetida (earthworms)

Toxicity to terrestrial organisms : LD50: > 2,510 mg/kg  
Species: Anas platyrhynchos (Mallard duck)

LC50: > 5620 ppm  
Species: Anas platyrhynchos (Mallard duck)  
Remarks: Dietary

LD50: > 2000  
Species: Coturnix japonica (Japanese quail)

NOEC: 94 mg/kg  
End point: Reproduction Test  
Species: Colinus virginianus

LC50: > 85.29  
Species: Apis mellifera (bees)

LC50: > 100  
Species: Apis mellifera (bees)  
Remarks: Contact

### Sulfentrazone:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 120 mg/l  
Exposure time: 96 h  
Test Type: flow-through test  
Method: EPA OPP 72-1

LC50 (Lepomis macrochirus (Bluegill sunfish)): 93.8 mg/l  
Exposure time: 96 h  
Test Type: flow-through test  
Method: EPA OPP 72-1

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Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 60.4 mg/l  
Exposure time: 48 h  
Test Type: flow-through test

NOEC (Daphnia magna (Water flea)): 14.1 mg/l  
Exposure time: 48 h  
Test Type: flow-through test

Toxicity to algae/aquatic plants : EC50 (algae): 32.8 mg/l  
Exposure time: 72 h

EC50 (Pseudokirchneriella subcapitata (green algae)): 0.031 mg/l  
Exposure time: 120 h

EC50 (Lemna gibba (duckweed)): 0.0288 mg/l  
Exposure time: 14 d

EC50 (Navicula pelliculosa (Diatom)): 0.042 mg/l  
Exposure time: 120 h

Toxicity to fish (Chronic toxicity) : NOEC: 5.9 mg/l  
Exposure time: 21 d  
Species: Fish

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0.51 mg/l  
Exposure time: 21 d  
Species: Crustaceans

Toxicity to terrestrial organisms : LD50: > 5,620 ppm  
End point: Acute oral toxicity  
Species: Anas platyrhynchos (Mallard duck)

NOEL: 3,160 ppm  
End point: Acute oral toxicity  
Species: Anas platyrhynchos (Mallard duck)

LD50: > 5,620 ppm  
End point: Acute oral toxicity  
Species: Colinus virginianus (Bobwhite quail)

NOEL: 5,620 ppm  
End point: Acute oral toxicity  
Species: Colinus virginianus (Bobwhite quail)

NOEL: > 100 ppm  
End point: Reproduction Test  
Species: Colinus virginianus (Bobwhite quail)

NOEL: > 100 ppm  
End point: Reproduction Test  
Species: Anas platyrhynchos (Mallard duck)

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LD50: > 25 µg/bee  
End point: Acute oral toxicity  
Species: Apis mellifera (bees)

LD50: > 200 µg/bee  
End point: Acute contact toxicity  
Species: Apis mellifera (bees)

### Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

#### sodium carbonate:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 300 mg/l  
Exposure time: 96 h  
Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Ceriodaphnia (water flea)): 200 mg/l  
Exposure time: 48 h  
Test Type: semi-static test

#### sodium dodecylbenzenesulfonate:

Toxicity to fish : LC50 (Cyprinodon sp. (minnow)): 4.5 - 6.4 mg/l  
Exposure time: 24 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 6.3 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Lemna minor (duckweed)): 2.7 mg/l  
Exposure time: 7 d  
Method: OECD Test Guideline 221

Toxicity to microorganisms : EC50 (activated sludge): 500 mg/l  
Exposure time: 3 h  
Test Type: Respiration inhibition  
Method: OECD Test Guideline 209

Toxicity to fish (Chronic toxicity) : NOEC: 3.2 mg/l  
Exposure time: 30 d  
Species: Fish

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 1.65 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211

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### **toluene:**

Toxicity to fish	:	LC50 (Fish): 5.5 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50: 3.78 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	NOEC ( Skeletonema costatum (marine diatom)): 10 mg/l Exposure time: 72 h
Toxicity to microorganisms	:	EC50 (Bacteria): 134 mg/l Exposure time: 3 h
Toxicity to fish (Chronic toxicity)	:	NOEC: 1.4 mg/l Species: Oncorhynchus kisutch (coho salmon)
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC: 0.74 mg/l Exposure time: 7 d Species: Ceriodaphnia sp.

### **Persistence and degradability**

#### **Components:**

#### **clomazone (ISO):**

Biodegradability	:	Result: Not readily biodegradable. Remarks: Substance/product is moderately persistent in the environment. Primary degradation half-lives vary with circumstances, from a few weeks to a few months in aerobic soil and water.
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#### **Sulfentrazone:**

Biodegradability	:	Result: Not readily biodegradable.
Stability in water	:	Degradation half life (DT50): 2.22 - 9.56 h
Photodegradation	:	Remarks: Decomposes rapidly in contact with light.

#### **sodium carbonate:**

Biodegradability	:	Remarks: The methods for determining biodegradability are not applicable to inorganic substances.
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#### **sodium dodecylbenzenesulfonate:**

Biodegradability	:	Result: Readily biodegradable. Biodegradation: > 75 % Exposure time: 11 d Method: OECD Test Guideline 301E
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### **toluene:**



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Biodegradability : Result: Readily biodegradable.

### Bioaccumulative potential

#### Components:

##### **clomazone (ISO):**

Bioaccumulation : Bioconcentration factor (BCF): 27 - 40  
Remarks: Low potential for bioaccumulation

Partition coefficient: n-octanol/water : log Pow: 2.61 - 2.69 (20 - 21 °C)  
pH: 4 - 10  
Method: Regulation (EC) No. 440/2008, Annex, A.8

##### **Sulfentrazone:**

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)  
GLP: yes  
Remarks: Low potential for bioaccumulation

Partition coefficient: n-octanol/water : Pow: 9.8  
pH: 7

##### **sodium carbonate:**

Bioaccumulation : Remarks: Does not bioaccumulate.

##### **sodium dodecylbenzenesulfonate:**

Bioaccumulation : Exposure time: 3 d  
Bioconcentration factor (BCF): 130

Partition coefficient: n-octanol/water : log Pow: 1.96

##### **toluene:**

Bioaccumulation : Bioconcentration factor (BCF): 90

Partition coefficient: n-octanol/water : log Pow: 2.73 (20 °C)

### Mobility in soil

#### Components:

##### **clomazone (ISO):**

Distribution among environmental compartments : Koc: 300 ml/g, log Koc: 2.47  
Remarks: Moderately mobile in soils

##### **Sulfentrazone:**

Mobility : Medium: Water

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Remarks: Predicted distribution to environmental compartments

Distribution among environmental compartments : Koc: 43 ml/g, log Koc: 1.63  
Remarks: Highly mobile in soils

### Other adverse effects

#### Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Harmful to aquatic life.  
Very toxic to aquatic life with long lasting effects.

## 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.

## 14. TRANSPORT INFORMATION

### International Regulations

#### UNRTDG

UN number : UN 3077  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(Clomazone, Sulfentrazone)  
Class : 9  
Subsidiary risk : ENVIRONM.  
Packing group : III  
Labels : 9 (ENVIRONM.)  
Environmentally hazardous : yes

#### IATA-DGR

UN/ID No. : UN 3077  
Proper shipping name : Environmentally hazardous substance, solid, n.o.s.  
(Clomazone, Sulfentrazone)  
Class : 9  
Packing group : III  
Labels : Miscellaneous  
Packing instruction (cargo) : 956

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aircraft)

Packing instruction (passenger aircraft) : 956

Environmentally hazardous

: yes

### IMDG-Code

UN number : UN 3077

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

(Clomazone, Sulfentrazone)

Class : 9

Packing group : III

Labels : 9

EmS Code : F-A, S-F

Marine pollutant : yes

### Transport in bulk according to IMO instruments

Not applicable for product as supplied.

### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

## 15. REGULATORY INFORMATION

### Safety, health and environmental regulations/legislation specific for the substance or mixture

#### The ingredients of this product are reported in the following inventories:

TCSI : Not in compliance with the inventory

TSCA : Product contains substance(s) not listed on TSCA inventory.

AIIC : Not in compliance with the inventory

DSL : This product contains the following components that are not on the Canadian DSL nor NDSL.

clomazone (ISO)

Sulfentrazone

o-Chlorobenzaldehyde

ENCS : Not in compliance with the inventory

ISHL : Not in compliance with the inventory

KECI : Not in compliance with the inventory

PICCS : Not in compliance with the inventory

IECSC : Not in compliance with the inventory

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NZIoC	:	Not in compliance with the inventory
TECI	:	Not in compliance with the inventory

### 16. OTHER INFORMATION

Revision Date	:	20.05.2025
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#### Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
ACGIH BEI	:	ACGIH - Biological Exposure Indices (BEI)
IN OEL	:	India. Permissible levels of certain chemical substances in work environment.
ACGIH / TWA	:	8-hour, time-weighted average
IN OEL / TWA	:	Time-Weighted Average Concentration (TWA) (8 hrs.)
IN OEL / STEL	:	Short-term exposure Limit STEL (15 min)

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recom-

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recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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