

SAFETY DATA SHEET



Austral

Version 0.0 Revision Date: 27.04.2022 SDS Number: 50002643 Date of last issue: -
Date of first issue: 27.04.2022

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Austral

Manufacturer or supplier's details

Company : FMC India Private Ltd
Address : TCG Financial Centre, 2nd Floor C-53
Bandra Kurla Complex,
Bandra (E), Mumbai, Bandra Suburban,
Telephone : Maharashtra- 400098, India
Emergency telephone : 022 6704 5504/5404
000-800-100-7141 (CHEMTREC)

Recommended use of the chemical and restrictions on use

Recommended use : Can be used as herbicide only.

Restrictions on use : Use as recommended by the label.

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

Specific target organ toxicity - repeated exposure : Category 2 (Blood, Thyroid)

Short-term (acute) aquatic hazard : Category 3

Long-term (chronic) aquatic hazard : Category 1

GHS label elements

Hazard pictograms :  

Signal Word : Warning

Hazard Statements : H373 May cause damage to organs (Blood, Thyroid) through

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prolonged or repeated exposure.
H402 Harmful to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements : **Prevention:**
P260 Do not breathe dust.
P273 Avoid release to the environment.
Response:
P319 Get medical help if you feel unwell.
P391 Collect spillage.
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)
metribuzin (ISO)	21087-64-9	>= 10 - < 20
clomazone (ISO)	81777-89-1	>= 10 - < 20
sodium dodecylbenzenesulfonate	25155-30-0	>= 3 - < 10

4. FIRST AID MEASURES

General advice : Move out of dangerous area.
Show this 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 : Flush eyes with water as a precaution.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.

If swallowed : 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 cause damage to organs through prolonged or repeated exposure.

Notes to physician : Treat symptomatically.
It may be helpful to show this safety data sheet to physician.
Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Carbon dioxide (CO₂)
Water spray
Foam
Dry chemical

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 : Thermal decomposition can lead to release of irritating gases and vapors.
Nitrogen oxides (NO_x)
Sulfur oxides
Carbon oxides

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 : Avoid dust formation.

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.

7. HANDLING AND STORAGE

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- Advice on protection against fire and explosion : Provide appropriate exhaust ventilation at places where dust is formed.
- Advice on safe handling : Avoid formation of respirable particles.
Do not breathe vapors/dust.
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.
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
metribuzin (ISO)	21087-64-9	TWA	5 mg/m ³	ACGIH

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
- 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.
- Hygiene measures : Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

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Appearance : powder

Color : off-white

pH : 6 - 8
(1% solution in water)

Melting point/freezing point : not determined

Boiling point/boiling range : Not applicable

Flash point : Not applicable

Self-ignition : not determined

Relative density : not determined

Bulk density : 0.18 - 0.22 kg/m³

Solubility(ies)
Water solubility : dispersible

Partition coefficient: n-octanol/water : No data available

Viscosity
Viscosity, kinematic : Not applicable

Explosive properties : Not explosive

Oxidizing properties : Non-oxidizing

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 oxidizing agents
Strong acids and strong bases

Hazardous decomposition products : Thermal decomposition can lead to release of irritating gases and vapors.
Nitrogen oxides (NO_x)
Sulfur oxides

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Carbon oxides

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.

Product:

- Acute oral toxicity : LD50(Rat, female): > 2,000 mg/kg
Method: OECD Test Guideline 423
Assessment: The substance or mixture has no acute oral toxicity
- Acute inhalation toxicity : LC50(Rat): > 2.75 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
Assessment: The substance or mixture has no acute inhalation toxicity
- 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

Components:**metribuzin (ISO):**

- Acute oral toxicity : LD50 (Rat, female): 322 mg/kg
LD50 (Rat, male): 510 mg/kg
LD50 (Mouse): 700 mg/kg
- Acute inhalation toxicity : LC50 (Rat): > 2.05 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Assessment: The substance or mixture has no acute inhalation toxicity
Remarks: Highest attainable concentration.
- LC50 (Rat, male and female): > 0.648 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Assessment: The substance or mixture has no acute inhalation toxicity
Remarks: Highest attainable concentration.

- Acute dermal toxicity : LD50 (Rat): > 5,000 mg/kg

clomazone (ISO):

- Acute oral toxicity : LD50 (Rat, female): 1,369 mg/kg

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Method: US EPA Test Guideline OPP 81-1

Acute inhalation toxicity : LC50 (Rat, female): 4.85 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: US EPA Test Guideline OPP 81-3

Acute dermal toxicity : LD50 (Rabbit, male and female): > 2,000 mg/kg
Method: US EPA Test Guideline OPP 81-2
Assessment: The substance or mixture has no acute dermal toxicity

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

Skin corrosion/irritation

Not classified based on available information.

Product:

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation

Components:

metribuzin (ISO):

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation

clomazone (ISO):

Species : Rabbit
Method : US EPA Test Guideline OPP 81-5
Result : No skin irritation

sodium dodecylbenzenesulfonate:

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

Serious eye damage/eye irritation

Not classified based on available information.

Product:

Species : Rabbit

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Method : OECD Test Guideline 405
Result : No eye irritation

Components:

metribuzin (ISO):

Species : Rabbit
Method : OECD Test Guideline 405
Result : No eye irritation

clomazone (ISO):

Species : Rabbit
Method : US EPA Test Guideline OPP 81-4
Result : No eye irritation

sodium dodecylbenzenesulfonate:

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

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Product:

Test Type : Buehler Test
Species : Guinea pig
Method : OECD Test Guideline 406
Result : Not a skin sensitizer.

Components:

metribuzin (ISO):

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

clomazone (ISO):

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

sodium dodecylbenzenesulfonate:

Test Type : Maximization Test
Routes of exposure : Skin contact
Species : Guinea pig

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Assessment : Does not cause skin sensitization.

Germ cell mutagenicity

Not classified based on available information.

Components:

metribuzin (ISO):

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

clomazone (ISO):

Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
Result: negative

Test Type: gene mutation test
Test system: Chinese hamster ovary cells
Metabolic activation: with and without metabolic activation
Result: negative

Genotoxicity in vivo : Test Type: Cytogenetic assay
Species: Rat
Result: negative

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

Carcinogenicity

Not classified based on available information.

Components:

metribuzin (ISO):

Species : Rat, male
Application Route : Oral
Exposure time : 2 Years
NOAEL : 1.3 mg/kg bw/day

Carcinogenicity - Assessment : Animal testing did not show any carcinogenic effects.

clomazone (ISO):

Species : Rat, male and female

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Application Route : Oral
Exposure time : 2 Years
Result : negative

sodium dodecylbenzenesulfonate:

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

Reproductive toxicity

Not classified based on available information.

Components:

metribuzin (ISO):

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

clomazone (ISO):

Effects on fertility : Test Type: Two-generation study
Species: Rat, male and female
Application Route: Oral
Result: negative

Effects on fetal development : Test Type: Embryo-fetal development
Species: Rat
Application Route: Oral
Symptoms: Maternal effects.
Result: negative

Test Type: Embryo-fetal development
Species: Rabbit
Application Route: Oral
Symptoms: Maternal effects.
Result: negative

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

STOT-single exposure

Not classified based on available information.

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Components:

clomazone (ISO):

Remarks : No significant adverse effects were reported

sodium dodecylbenzenesulfonate:

Assessment : May cause respiratory irritation.

STOT-repeated exposure

May cause damage to organs (Blood, Thyroid) through prolonged or repeated exposure.

Components:

metribuzin (ISO):

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

Repeated dose toxicity

Components:

metribuzin (ISO):

Species : Rat
NOAEL : <5 mg/kg bw/day
Application Route : Oral
Exposure time : 90-day

clomazone (ISO):

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

sodium dodecylbenzenesulfonate:

Species : Rat, male and female
NOAEL : 100 mg/kg
LOAEL : 200 mg/kg
Application Route : Oral
Exposure time : 14 d
Method : OECD Test Guideline 422

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

Aspiration toxicity

Not classified based on available information.

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Components:

clomazone (ISO):

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

Further information

Product:

Remarks : No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): 49.83 mg/l
Exposure time: 96 h
Test Type: Static renewal test
Method: OECD Test Guideline 203

Toxicity to soil dwelling organisms : LC50: 272.49 mg/kg
Species: Eisenia fetida (earthworms)
Method: OECD Test Guideline 207

Toxicity to terrestrial organisms : LD50: > 2,000 mg/kg
End point: Acute oral toxicity
Species: Gallus gallus
Method: OECD Test Guideline 223

LD50: 1,328.8 mg/kg
End point: Acute oral toxicity
Species: Columba livia (feral pigeon)
Method: OECD Test Guideline 223

LD50: > 100 µg/bee
End point: Acute oral toxicity
Species: Honey Bee
Method: OECD Test Guideline 213

LD50: > 100 µg/bee
End point: Acute contact toxicity
Species: Honey Bee
Method: OECD Test Guideline 214

Components:

metribuzin (ISO):

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 74.6 mg/l
Exposure time: 96 h

LC50 (Leuciscus idus (Golden orfe)): 141.6 mg/l
Exposure time: 96 h

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		LC50 (Cyprinodon variegatus (sheepshead minnow)): 85 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 49.6 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC50 (Desmodesmus subspicatus (green algae)): 0.022 mg/l Exposure time: 72 h
M-Factor (Acute aquatic toxicity)	:	10
Toxicity to microorganisms	:	EC50 (activated sludge): 761 mg/l
M-Factor (Chronic aquatic toxicity)	:	10
Toxicity to soil dwelling organisms	:	LC50: 331.8 mg/kg Species: Eisenia fetida (earthworms)
Toxicity to terrestrial organisms	:	LD50: 164 mg/kg Species: Colinus virginianus (Bobwhite quail)
		LD50: 460 - 680 mg/kg Species: Anas platyrhynchos (Mallard duck)
		LD50: 35 µg/bee Species: Apis mellifera (bees)
clomazone (ISO):		
Toxicity to fish	:	LC50 (Menidia beryllina (Silverside)): 6.3 mg/l Exposure time: 96 h
		LC50 (Oncorhynchus mykiss (rainbow trout)): 14.4 mg/l Exposure time: 96 h
		LC50 (Lepomis macrochirus (Bluegill sunfish)): 34 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia): 5.2 mg/l Exposure time: 48 h
		EC50 (Daphnia magna (Water flea)): 12.7 mg/l Exposure time: 48 h
		LC50 (Mysidopsis bahia (opossum shrimp)): 0.57 mg/l Exposure time: 96 h
		LC50 (Crustaceans): 0.53 mg/l Exposure time: 96 h
Toxicity to algae/aquatic plants	:	EbC50 (Selenastrum capricornutum (green algae)): 2 mg/l Exposure time: 72 h

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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

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

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

Toxicity to fish (Chronic toxicity) : NOEC: 2.3 mg/l
Exposure time: 21 d
Species: *Oncorhynchus mykiss* (rainbow trout)

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

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

LC50: > 85.29
Species: *Apis mellifera* (bees)

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

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

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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

Persistence and degradability

Components:

metribuzin (ISO):

Biodegradability : Result: Not readily biodegradable.

Stability in water : Degradation half life (DT50): 7 d

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.

sodium dodecylbenzenesulfonate:

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

Bioaccumulative potential

Components:

metribuzin (ISO):

Bioaccumulation : Remarks: Does not bioaccumulate.

Partition coefficient: n-octanol/water : log Pow: 1.6

clomazone (ISO):

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

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Partition coefficient: n-octanol/water : log Pow: 2.5

sodium dodecylbenzenesulfonate:

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

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

Mobility in soil

Components:

metribuzin (ISO):

Distribution among environmental compartments : Koc: 24 - 106
Remarks: Mobile in soils

Stability in soil :

clomazone (ISO):

Distribution among environmental compartments : Remarks: Moderately 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

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

IATA-DGR

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

IMDG-Code

UN number : UN 3077
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(Metribuzin, Clomazone)
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 : On the inventory, or in compliance with the inventory
TSCA : Product contains substance(s) not listed on TSCA inventory.
AIC : Not in compliance with the inventory

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DSL	:	This product contains the following components that are not on the Canadian DSL nor NDSL. 2-(2-CHLOROBENZYL)-4,4-DIMETHYLISOXAZOLIDIN-3-ONE metribuzin (ISO)
ENCS	:	Not in compliance with the inventory
ISHL	:	Not in compliance with the inventory
KECI	:	On the inventory, or in compliance with the inventory
PICCS	:	Not in compliance with the inventory
IECSC	:	On the inventory, or in compliance with the inventory
NZIoC	:	Not in compliance with the inventory
TECI	:	Not in compliance with the inventory

16. OTHER INFORMATION

Date format : dd.mm.yyyy

Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

ACGIH / TWA : 8-hour, time-weighted average

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,

SAFETY DATA SHEET



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

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