Austral



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1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Austral

Manufacturer or supplier's details

FMC India Private Ltd Company

Address TCG Financial Centre, 2nd Floor C-53

Bandra Kurla Complex,

Bandra (E), Mumbai, Bandra Suburban,

: Maharashtra- 400098, India Telephone

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 - : Category 2 (Blood, Thyroid)

repeated exposure

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 prod: :

ucts

Thermal decomposition can lead to release of irritating gases

and vapors.

Nitrogen oxides (NOx)

Sulfur oxides Carbon oxides

Specific extinguishing meth-

ods

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 nec-

essary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- : Avoid dust formation.

tive equipment and emer-

gency procedures

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 ap-

plication 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 stor-

age 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	Control parameters / Permissible	Basis
		exposure)	concentration	
metribuzin (ISO)	21087-64-9	TWA	5 mg/m3	ACGIH

Personal protective equipment

Respiratory protection : Use respiratory protection unless adequate local exhaust ven-

tilation 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 concen-

tration 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 reac-

tions

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 (NOx)

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 tox-

icity

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 inhala-

tion 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 inhala-

tion 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 inhala-

tion 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 -

cell mutagen.

Assessment

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

Weight of evidence does not support classification as a germ

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 - Assess-

ment

: 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 - As-

sessment

Weight of evidence does not support classification for repro-

ductive 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 or-

ganisms

LC50: 272.49 mg/kg

Species: Eisenia fetida (earthworms) Method: OECD Test Guideline 207

Toxicity to terrestrial organ-

isms

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 tox-

icity)

10

Toxicity to microorganisms : EC50 (activated sludge): 761 mg/l

M-Factor (Chronic aquatic

toxicity)

10

Toxicity to soil dwelling or-

ganisms

LC50: 331.8 mg/kg

Species: Eisenia fetida (earthworms)

Toxicity to terrestrial organ-

isms

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 tox-

icity)

NOEC: 2.3 mg/l Exposure time: 21 d

Species: Oncorhynchus mykiss (rainbow trout)

Toxicity to daphnia and other :

aquatic invertebrates (Chron-

ic 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 or-

ganisms

LC50: 156 mg/kg

Exposure time: 14 d

Species: Eisenia fetida (earthworms)

Toxicity to terrestrial organ-

isms

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 tox-

icity)

NOEC: 3.2 mg/l Exposure time: 30 d

Species: Fish

Toxicity to daphnia and other :

aquatic invertebrates (Chron-

ic 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 environ-

mental compartments

Koc: 24 - 106

Remarks: Mobile in soils

Stability in soil

clomazone (ISO):

Distribution among environ-

mental compartments

Remarks: Moderately mobile in soils

Other adverse effects

Product:

Additional ecological infor-

mation

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 chemi-

cal 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)

Packing instruction (passen-

ger aircraft)

Environmentally hazardous : yes

IMDG-Code

UN number : UN 3077

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

956

956

(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.

AIIC : 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, Evalua-





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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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