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SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : MAGISTER COMMAND 480 EC HERBICIDE

Other means of identification : CLOMAZONE 480 G/L EC

MAGISTER 480 EC COMMAND 480 EC

Recommended use of the chemical and restrictions on use

Recommended use : Can be used as herbicide only.

Restrictions on use : Do not use product for anything outside of the above specified

uses.

Manufacturer or supplier's details

Company : FMC Australasia Pty Ltd

Address : Building B, Level 2, 12 Julius Avenue,

North Ryde NSW 2113

Telephone : +6161029887900

Emergency telephone number : For leak, fire, spill or accident emergencies, call:

1800 033 111 (Ixom)

Medical emergency:

1 800 033 111 (Transport and 24 h Medical information)

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Flammable liquids : Category 3

Acute toxicity (Oral) : Category 4

Acute toxicity (Inhalation) : Category 4

Serious eye damage/eye irri-

tation

Category 2A

Carcinogenicity : Category 2

single exposure

Specific target organ toxicity - : Category 3 (Respiratory system, Central nervous system)





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Aspiration hazard Category 1

GHS label elements

Hazard pictograms







Signal word Danger

Hazard statements H226 Flammable liquid and vapour.

> H302 + H332 Harmful if swallowed or if inhaled. H304 May be fatal if swallowed and enters airways.

H319 Causes serious eye irritation. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H351 Suspected of causing cancer.

Supplemental Hazard State-

ments

AUH066 Repeated exposure may cause skin dryness or crack-

ing.

Precautionary statements

Prevention:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

P240 Ground and bond container and receiving equipment.

P241 Use explosion-proof electrical/ ventilating/ lighting equip-

ment.

P242 Use non-sparking tools.

P243 Take action to prevent static discharges.

P261 Avoid breathing mist or vapours.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/ protective clothing/ eye protec-

tion/ face protection/ hearing protection.

Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediate-

ly all contaminated clothing. Rinse skin with water.

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308 + P313 IF exposed or concerned: Get medical advice/

P331 Do NOT induce vomiting.





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P337 + P313 If eye irritation persists: Get medical advice/ at-

tention.

P370 + P378 In case of fire: Use dry sand, dry chemical or

alcohol-resistant foam to extinguish.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container

tightly closed.

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

Other hazards which do not result in classification

Very toxic to aquatic life with long lasting effects.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Solvent naphtha (petroleum), heavy arom.	64742-94-5	>= 30 -< 60
clomazone (ISO)	81777-89-1	>= 30 -< 60
Benzenesulfonic acid, C10-16-alkyl derivs.,	68584-23-6	>= 1 -< 3
calcium salts		
2-ethylhexan-1-ol	104-76-7	< 10
Alcohols, C12-14. ethoxylated	68439-50-9	>= 1 -< 3

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.

Show this safety data sheet to the doctor in attendance. Symptoms of poisoning may appear several hours later.

Do not leave the victim unattended.

If inhaled : Consult a physician after significant exposure.

If unconscious, place in recovery position and seek medical

advice.

In case of skin contact : If skin irritation persists, call a physician.

If on skin, rinse well with water. If on clothes, remove clothes.

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 : Clean mouth with water and drink afterwards plenty of water.





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Keep respiratory tract clear. Do NOT induce vomiting.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician. Take victim immediately to hospital.

Most important symptoms and effects, both acute and

delayed

Harmful if swallowed or if inhaled.

May be fatal if swallowed and enters airways.

Causes serious eye irritation.
May cause respiratory irritation.
May cause drowsiness or dizziness.
Suspected of causing cancer.

Repeated exposure may cause skin dryness or cracking.

Notes to physician : Treat symptomatically.

It may be helpful to show this safety data sheet to physician.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Alcohol-resistant foam

Carbon dioxide (CO2)

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

Halogenated compounds

Nitrogen oxides (NOx)

Carbon oxides Chlorine compounds

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.

For safety reasons in case of fire, cans should be stored sepa-

rately in closed containments.

Use a water spray to cool fully closed containers.

Special protective equipment:

for firefighters

Wear self-contained breathing apparatus for firefighting if nec-

essary.

Hazchem Code : •3Y

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emer-

gency procedures

Use personal protective equipment.

Ensure adequate ventilation.
Remove all sources of ignition.
Evacuate personnel to safe areas.

Beware of vapours accumulating to form explosive concentra-





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tions. Vapours can accumulate in low areas.

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

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local

/ national regulations (see section 13).

SECTION 7. HANDLING AND STORAGE

Advice on protection against

fire and explosion

Do not spray on a naked flame or any incandescent material.

Take necessary action to avoid static electricity discharge

(which might cause ignition of organic vapours).

Keep away from open flames, hot surfaces and sources of

ignition.

Advice on safe handling : Avoid formation of aerosol.

Do not breathe vapours/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 ap-

plication area.

Take precautionary measures against static discharges.

Provide sufficient air exchange and/or exhaust in work rooms.

Open drum carefully as content may be under pressure.

Dispose of rinse water in accordance with local and national

regulations.

Hygiene measures : When using do not eat or drink.

When using do not smoke.

Wash hands before breaks and at the end of workday.

Conditions for safe storage : No smoking.

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 stor-

age stability

No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type	Control parame-	Basis
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	(Form of	ters / Permissible	
	exposure)	concentration	
64742-94-5	TWA	200 mg/m3	ACGIH
		`	
	64742-94-5	exposure)	exposure) concentration

Personal protective equipment

Respiratory protection : In case of mist, spray or aerosol exposure wear suitable per-

sonal respiratory protection and protective suit.

Hand protection

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 : Impervious clothing

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Colour : light yellow

Odour : aromatic, solvent-like

pH : 5.1

Melting point/range : Not applicable

Boiling point/boiling range : not determined

Flash point : 40 °C

Method: Tag closed cup

Flammability (liquids) : Sustains combustion

Density : 1.025 - 1.028 g/cm3

Solubility(ies)

Water solubility : emulsifiable

Explosive properties : Not explosive





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Oxidizing properties : The substance or mixture is not classified as oxidizing.

SECTION 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.

Vapours may form explosive mixture with air.

Conditions to avoid : Heat, flames and sparks.

Incompatible materials : Strong oxidizing agents

Strong acids and strong bases

Hazardous decomposition

products

Nitrogen oxides (NOx)

Carbon oxides

Chlorine compounds

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Harmful if swallowed or if inhaled.

Product:

Acute oral toxicity : LD50 (Rat, female): 1,406 mg/kg

Method: US EPA Test Guideline OPP 81-1

LD50 (Rat, male): 2,343 mg/kg

Method: US EPA Test Guideline OPP 81-1

Acute inhalation toxicity : LC50 (Rat, male and female): 4.59 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

Components:

Solvent naphtha (petroleum), heavy arom.:

Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg

Method: OECD Test Guideline 401

Remarks: Based on data from similar materials

Acute inhalation toxicity : LC50 (Rat, male and female): > 5.28 mg/l

Exposure time: 4 h
Test atmosphere: vapour





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Assessment: The substance or mixture has no acute inhala-

tion toxicity

Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rabbit, male and female): > 2,000 mg/kg

Method: OECD Test Guideline 402

Assessment: The substance or mixture has no acute dermal

toxicity

Remarks: Based on data from similar materials

clomazone (ISO):

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

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

Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts:

Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg

Method: OECD Test Guideline 401

Remarks: Based on data from similar materials

Acute inhalation toxicity : LD50 (Rat, male and female): > 1.9 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 (Rabbit, male and female): > 4,000 mg/kg

Remarks: Based on data from similar materials

2-ethylhexan-1-ol:

Acute oral toxicity : LD50 (Rat, male): 2,047 mg/kg

Acute inhalation toxicity : LC50 (Rat): 4.3 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rat, male and female): > 3,000 mg/kg

Method: OECD Test Guideline 402

Assessment: The substance or mixture has no acute dermal

toxicity

Alcohols, C12-14. ethoxylated:





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Acute oral toxicity : LD50 (Rat, female): > 2,000 mg/kg

Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 1.6 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 (Rabbit, male and female): > 3,000 mg/kg

Method: OECD Test Guideline 402

Skin corrosion/irritation

Repeated exposure may cause skin dryness or cracking.

Product:

Species : Rabbit

Method : US EPA Test Guideline OPP 81-5

Result : slight irritation

Remarks : May cause skin irritation and/or dermatitis.

Components:

Solvent naphtha (petroleum), heavy arom.:

Species : Rabbit

Result : No skin irritation

Assessment : Repeated exposure may cause skin dryness or cracking.

clomazone (ISO):

Species : Rabbit

Method : US EPA Test Guideline OPP 81-5

Result : No skin irritation

Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts:

Result : Skin irritation

2-ethylhexan-1-ol:

Species : Rabbit

Method : OECD Test Guideline 404

Result : Skin irritation

Alcohols, C12-14. ethoxylated:

Species : Rabbit

Method : OECD Test Guideline 404

Result : No skin irritation





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Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

Species : Rabbit

Result : Irritation to eyes, reversing within 21 days

Method : US EPA Test Guideline OPP 81-4

Remarks : May cause irreversible eye damage.

Components:

Solvent naphtha (petroleum), heavy arom.:

Species : Rabbit

Result : No eye irritation

Remarks : Based on data from similar materials

clomazone (ISO):

Species : Rabbit

Result : No eye irritation

Method : US EPA Test Guideline OPP 81-4

Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts:

Result : Irreversible effects on the eye

2-ethylhexan-1-ol:

Species : Rabbit

Result : Irritation to eyes, reversing within 21 days

Method : OECD Test Guideline 405

Alcohols, C12-14. ethoxylated:

Species : Rabbit

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

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Product:

Test Type : Buehler Test Exposure routes : Skin contact Species : Guinea pig

Method : US EPA Test Guideline OPP 81-6
Result : Does not cause skin sensitisation.





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Components:

Solvent naphtha (petroleum), heavy arom.:

Test Type : Buehler Test Species : Guinea pig

Result : Does not cause skin sensitisation.
Remarks : Based on data from similar materials

clomazone (ISO):

Species : Guinea pig

Assessment : Not a skin sensitizer.

Method : US EPA Test Guideline OPP 81-6

Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts:

Test Type : Buehler Test Species : Guinea pig

Result : Not a skin sensitizer.

Remarks : Based on data from similar materials

Alcohols, C12-14. ethoxylated:

Exposure routes : Skin contact Species : Guinea pig

Method : Directive 67/548/EEC, Annex V, B.6. Result : Does not cause skin sensitisation.

Skin contact
Humans

: Does not cause skin sensitisation.

Chronic toxicity

Germ cell mutagenicity

Not classified based on available information.

Components:

Solvent naphtha (petroleum), heavy arom.:

Genotoxicity in vitro : Test Type: reverse mutation assay

Result: negative

Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: sister chromatid exchange assay

Species: Mouse

Application Route: Intraperitoneal injection

Result: negative

Remarks: Based on data from similar materials

clomazone (ISO):

Genotoxicity in vitro : Test Type: Ames test

Test system: Salmonella typhimurium

Result: negative





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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

Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts:

Genotoxicity in vitro Test Type: reverse mutation assay

Method: OECD Test Guideline 471

Result: negative

Remarks: Based on data from similar materials

Genotoxicity in vivo Test Type: Micronucleus test

Species: Mouse (male and female) Application Route: Intraperitoneal injection

Exposure time: 72 hrs

Method: Mutagenicity (micronucleus test) Remarks: Based on data from similar materials

2-ethylhexan-1-ol:

Genotoxicity in vitro Test Type: reverse mutation assay

Method: OECD Test Guideline 471

Result: negative

Genotoxicity in vivo Test Type: Micronucleus test

Species: Mouse

Application Route: Intraperitoneal injection

Result: negative

Alcohols, C12-14. ethoxylated:

Genotoxicity in vitro Test Type: reverse mutation assay

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative

Genotoxicity in vivo Application Route: Intraperitoneal injection

Method: OECD Test Guideline 474

Result: negative

Germ cell mutagenicity -

Assessment

Weight of evidence does not support classification as a germ

cell mutagen.

Carcinogenicity

Suspected of causing cancer.

Product:





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Carcinogenicity - Assess-

ment

: Limited evidence of carcinogenicity in animal studies

Components:

Solvent naphtha (petroleum), heavy arom.:

Species : Mouse
Application Route : Dermal
Exposure time : 104 weeks
Result : negative

Remarks : Based on data from similar materials

Carcinogenicity - Assess-

ment

: Limited evidence of carcinogenicity in animal studies

clomazone (ISO):

Species : Rat, male and female

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

2-ethylhexan-1-ol:

Species : Rat Application Route : Oral

Exposure time : 24 month(s)
Result : negative

Alcohols, C12-14. ethoxylated:

Species : Rat, male and female

Exposure time : 24 month(s)
Result : negative

Reproductive toxicity

Not classified based on available information.

Components:

Solvent naphtha (petroleum), heavy arom.:

Effects on fertility : Test Type: Fertility

Species: Rat, male and female

Application Route: Oral

Method: OECD Test Guideline 415

Result: negative

Remarks: Based on data from similar materials

Effects on foetal develop-

ment

Test Type: reproductive and developmental toxicity study

Species: Rat

Application Route: Oral

Method: OECD Test Guideline 414

Result: negative

Remarks: Based on data from similar materials

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clomazone (ISO):

Effects on fertility : Test Type: Two-generation study

Species: Rat, male and female

Application Route: Oral

Result: negative

Effects on foetal develop-

ment

Test Type: Embryo-foetal development

Species: Rat

Application Route: Oral Symptoms: Maternal effects

Result: negative

Test Type: Embryo-foetal development

Species: Rabbit

Application Route: Oral Symptoms: Maternal effects

Result: negative

Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts:

Effects on fertility : Test Type: one-generation reproductive toxicity

Species: Rat, male and female

Application Route: Oral

Method: OECD Test Guideline 415

Result: No effects on fertility and early embryonic develop-

ment were detected.

2-ethylhexan-1-ol:

Effects on foetal develop-

ment

Test Type: Embryo-foetal development

Species: Mouse

Application Route: Oral

Method: OECD Test Guideline 414

Result: negative

Alcohols, C12-14. ethoxylated:

Reproductive toxicity - As-

sessment

Weight of evidence does not support classification for repro-

ductive toxicity

STOT - single exposure

May cause respiratory irritation. May cause drowsiness or dizziness.

Product:

Assessment : May cause respiratory irritation.

May cause drowsiness or dizziness.

Components:

Solvent naphtha (petroleum), heavy arom.:

Assessment : May cause drowsiness or dizziness.





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clomazone (ISO):

Remarks : No significant adverse effects were reported

2-ethylhexan-1-ol:

Assessment : May cause respiratory irritation.

STOT - repeated exposure

Not classified based on available information.

Components:

Alcohols, C12-14. ethoxylated:

Assessment : The substance or mixture is not classified as specific target

organ toxicant, repeated exposure.

Repeated dose toxicity

Components:

Solvent naphtha (petroleum), heavy arom.:

Species : Rat, male and female

NOAEL : 750 mg/kg Application Route : Oral - gavage

Exposure time : 90 day

Remarks : Based on data from similar materials

Species : Rat, male and female

NOAEL : 1 mg/l LOAEL : 0.5 mg/l

Application Route : inhalation (vapour)

Exposure time : 90 day

Symptoms : Alpha-2u-globulin nephropathy

clomazone (ISO):

Species : Rat, male and female

NOEL : 1000 ppm Application Route : Oral Exposure time : 90 days

Symptoms : increased liver weight

Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts:

Species : Rat, male and female

NOAEL : 500 mg/kg Application Route : Oral

Method : OECD Test Guideline 407

Remarks : Based on data from similar materials

Species : Rat, male and female

NOAEL : 50 mg/m3 Application Route : Inhalation

Method : OECD Test Guideline 412

Remarks : Based on data from similar materials





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Species : Rat, male and female

NOAEL : > 1,000 mg/kg

Application Route : Dermal

Method : OECD Test Guideline 410

Remarks : Based on data from similar materials

2-ethylhexan-1-ol:

Species : Rat

250 mg/kg

Application Route : Oral Exposure time : 13 weeks

Method : OECD Test Guideline 408

Alcohols, C12-14. ethoxylated:

Species : Rat, male and female

NOAEL : 110 mg/kg Application Route : Oral Exposure time : 2160 h

Aspiration toxicity

May be fatal if swallowed and enters airways.

Product:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

Components:

Solvent naphtha (petroleum), heavy arom.:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

clomazone (ISO):

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

Further information

Product:

Remarks : Symptoms of overexposure may be headache, dizziness,

tiredness, nausea and vomiting.

Concentrations substantially above the TLV value may cause

narcotic effects.

Solvents may degrease the skin.





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SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

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

Components:

Solvent naphtha (petroleum), heavy arom.:

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): 2 - 5 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Remarks: water accommodated fractions (WAF)

Toxicity to daphnia and other :

aquatic invertebrates

EL50 (Daphnia magna (Water flea)): 1.4 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Remarks: water accommodated fractions (WAF)

Toxicity to algae/aquatic

plants

EL50 (Pseudokirchneriella subcapitata (green algae)): > 1 - 3

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Remarks: water accommodated fractions (WAF)

Toxicity to microorganisms : LL50 (Tetrahymena pyriformis): 677.9 mg/l

Exposure time: 72 h

Test Type: Growth inhibition

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 (water flea)): 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





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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

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 (Oncorhynchus mykiss (rainbow trout)): 2.3 mg/l

Exposure time: 21 d

Toxicity to daphnia and other aquatic invertebrates (Chron-

ic toxicity)

NOEC (Daphnia magna (Water flea)): 2.2 mg/l

Exposure time: 21 d

Toxicity to soil dwelling or-

ganisms

LC50 (Eisenia fetida (earthworms)): 156 mg/kg

Exposure time: 14 d

Toxicity to terrestrial organ-

isms

LD50 (Anas platyrhynchos (Mallard duck)): > 2,510 mg/kg

LC50 (Anas platyrhynchos (Mallard duck)): >5620 ppm

LC50 (Apis mellifera (bees)): >85.29

LC50 (Apis mellifera (bees)): >100

Remarks: Contact

Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts:

Toxicity to fish : LL50 (Marine species): 10,000 mg/l

Exposure time: 96 h

Remarks: Based on data from similar materials

LL50 (Pimephales promelas (fathead minnow)): 1,000 mg/l

Exposure time: 96 h

Remarks: Based on data from similar materials

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 1,000 mg/l

Exposure time: 48 h

Remarks: Based on data from similar materials

Toxicity to algae/aquatic

plants

EL50 (Pseudokirchneriella subcapitata (green algae)): > 1,000

mg/l





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Exposure time: 96 h

Remarks: Based on data from similar materials

Toxicity to microorganisms : NOEC (activated sludge): 10,000 mg/l

Method: OECD Test Guideline 209

GLP: yes

Ecotoxicology Assessment

Acute aquatic toxicity : Toxic to aquatic life.

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

2-ethylhexan-1-ol:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 17.1 - 28.2 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 39 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

EC10 (Desmodesmus subspicatus (green algae)): 3.2 mg/l

Exposure time: 72 h

EC50 (Desmodesmus subspicatus (green algae)): 11.5 mg/l

Exposure time: 72 h

Toxicity to microorganisms : EC50 (Anabaena flos-aquae (cyanobacterium)): 16.6 mg/l

Exposure time: 72 h

Alcohols, C12-14. ethoxylated:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 1.1 mg/l

Exposure time: 96 h Test Type: semi-static test

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 0.7 mg/l

Exposure time: 48 h Test Type: static test

Method: Directive 67/548/EEC, Annex V, C.2.

Toxicity to algae/aquatic

plants

ErC50 (Desmodesmus subspicatus (green algae)): 0.87 mg/l

Exposure time: 72 h Test Type: static test

Toxicity to fish (Chronic tox-

icitv)

EC10 (Pimephales promelas (fathead minnow)): 0.96 mg/l

Exposure time: 30 d

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

EC10 (Daphnia magna (Water flea)): 0.53 mg/l

Exposure time: 21 d

Toxicity to microorganisms : EC50 (Pseudomonas putida): 1,000 g/l

Exposure time: 3 h





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Toxicity to soil dwelling or-

ganisms

NOEC (Eisenia fetida (earthworms)): 220 mg/kg

Method: OECD Test Guideline 222

Plant toxicity NOEC: >= 100 mg/l

Exposure time: 456 h

Persistence and degradability

Components:

Solvent naphtha (petroleum), heavy arom.:

Biodegradability Result: Inherently biodegradable.

Biodegradation: 58.6 % Exposure time: 28 d

Method: OECD Test Guideline 301F

Remarks: Based on data from similar materials

clomazone (ISO):

Biodegradability Result: Not readily biodegradable.

Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts:

Biodegradability Result: Not readily biodegradable.

2-ethylhexan-1-ol:

Biodegradability Result: Readily biodegradable.

Alcohols, C12-14. ethoxylated:

Biodegradability Result: Readily biodegradable.

Biodegradation: 78 % Exposure time: 28 d

Method: OECD Test Guideline 301B

Bioaccumulative potential

Components:

Solvent naphtha (petroleum), heavy arom.:

: log Pow: 1.99 - 18.02 Partition coefficient: noctanol/water Method: QSAR

clomazone (ISO):

Bioaccumulation Bioconcentration factor (BCF): 27 - 40

Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-

octanol/water

log Pow: 2.5

Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts:

Partition coefficient: n-

octanol/water

log Pow: 22.1

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2-ethylhexan-1-ol:

Partition coefficient: n-

octanol/water

log Pow: 2.9 (25 °C)

Alcohols, C12-14. ethoxylated:

Bioaccumulation : Bioconcentration factor (BCF): < 800

Remarks: Does not bioaccumulate.

Partition coefficient: n-

octanol/water

log Pow: 5.12 - 5.32 (25 °C)

Mobility in soil

Components:

clomazone (ISO):

Distribution among environ-

mental compartments

Remarks: Moderately mobile in soils

Alcohols, C12-14. ethoxylated:

Distribution among environ-

mental compartments

Koc: 13226.76 - 16423.03

Other adverse effects

Product:

Additional ecological infor-

mation

An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Very toxic to aquatic life with long lasting effects.

SECTION 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.

Do not burn, or use a cutting torch on, the empty drum.

SECTION 14. TRANSPORT INFORMATION

International Regulations



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UNRTDG

UN number : UN 1993

Proper shipping name : FLAMMABLE LIQUID, N.O.S.

(Clomazone, Aromatic hydrocarbons)

Class : 3
Packing group : III
Labels : 3

IATA-DGR

UN/ID No. : UN 1993

Proper shipping name : Flammable liquid, n.o.s.

(Clomazone, Aromatic hydrocarbons)

Class : 3 Packing group : III

Labels : Flammable Liquids

Packing instruction (cargo : 366

aircraft)

Packing instruction (passen: 355

ger aircraft)

Environmentally hazardous : yes

IMDG-Code

UN number : UN 1993

Proper shipping name : FLAMMABLE LIQUID, N.O.S.

(Clomazone, Aromatic hydrocarbons)

Class : 3
Packing group : III
Labels : 3
EmS Code : F-E, S-E
Marine pollutant : yes

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations

ADG

UN number : UN 1993

Proper shipping name : FLAMMABLE LIQUID, N.O.S.

(Clomazone, Aromatic hydrocarbons)

Class : 3
Packing group : III
Labels : 3
Hazchem Code : •3Y

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.

SECTION 15. REGULATORY INFORMATION

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





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Standard for the Uniform Scheduling of Medicines and

Poisons

: Schedule 6

APVMA Approval no.: 49604

Prohibition/Licensing Requirements

There is no applicable prohibition, authorisation and restricted use requirements, including for carcinogens referred to in Schedule 10 of the model WHS Act and Regula-

tions.

The components 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.

2-(2-CHLOROBENZYL)-4,4-DIMETHYLISOXAZOLIDIN-3-

ONE

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

NZIoC : Not in compliance with the inventory

TECI: Not in compliance with the inventory

SECTION 16. OTHER INFORMATION

Revision Date : 04.04.2022

Date format : dd.mm.yyyy

Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)





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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, 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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