MAGISTER PLUS



Version Revision Date: SDS Number: Date of last issue: -

1.0 2024/04/26 50000559 Date of first issue: 2024/04/26

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : MAGISTER PLUS

Other means of identification : COMPRO 390 EC

MAGISTER PLUS

CENTIUM

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.

Manufacturer or supplier's details

Company : FMC AG (Thailand) Ltd

Address : 159/22 Serm-Mit Tower, Unit 1404,

14th Floor, Sukhumvit 21 Road (Asoke) Khwaeng Klongtoey Nua,Khet Wattana

Bangkok 10110

Thailand

Telephone : +662 700 9770

Telefax : +662 700 9777

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

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

1 703 / 741-5970 (CHEMTREC - International)

001-800-13-203-9987 (CHEMTREC) Toll-free: 1800014808 (CHEMTREC)

Medical emergency:

All other countries: +1 651 / 632-6793 (Collect)

2. HAZARDS IDENTIFICATION

GHS Classification

Flammable liquids : Category 3

Acute toxicity (Oral) : Category 4

Acute toxicity (Inhalation) : Category 4

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

MAGISTER PLUS



Version Revision Date: SDS Number: Date of last issue: -

1.0 2024/04/26 50000559 Date of first issue: 2024/04/26

single exposure

Aspiration hazard : Category 1

Short-term (acute) aquatic

hazard

Category 1

Long-term (chronic) aquatic

hazard

Category 1

GHS label elements

Hazard pictograms









Signal Word : Danger

Hazard Statements : H226 Flammable liquid and vapor.

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

H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness.

H410 Very toxic to aquatic life with long lasting effects.

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/ sparks/ open flames/ hot surfaces.

No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ ventilating/ lighting/

equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P261 Avoid breathing mist or vapors. 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.

P273 Avoid release to the environment.

P280 Wear protective gloves/ eye protection/ face protection.

P281 Use personal protective equipment as required.

Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON

CENTER or doctor/ physician.

P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/

shower.

P304 + P340 + P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.

MAGISTER PLUS



Version Revision Date: SDS Number: Date of last issue: -

1.0 2024/04/26 50000559 Date of first issue: 2024/04/26

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

attention.

P331 Do NOT induce vomiting.

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

alcohol-resistant foam for extinction.

P391 Collect spillage.

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

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
propanil (ISO)	709-98-8	27
Clomazone	81777-89-1	12
Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified	64742-95-6	>= 25 -< 30
cyclohexanone	108-94-1	>= 10 -< 20
dodecylbenzenesulphonic acid, compound with 2,2'-iminodiethanol (1:1)	26545-53-9	>= 10 -< 20
Ethoxylated oleyl amine, dodecylbenzene- sulhponic salt	66467-20-7	>= 2.5 -< 3
ethylene glycol monobutyl ether	111-76-2	>= 1 -< 10

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 : Move to fresh air.

Consult a physician after significant exposure.

If unconscious, place in recovery position and seek medical

advice.

In case of skin contact : Take off all contaminated clothing immediately.

Wash contaminated clothing before re-use.

Wash off immediately with plenty of water for at least 15

minutes.

MAGISTER PLUS



Version Revision Date: SDS Number: Date of last issue: -

1.0 2024/04/26 50000559 Date of first issue: 2024/04/26

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 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.

May cause respiratory irritation. May cause drowsiness or dizziness.

Protection of first-aiders : First Aid responders should pay attention to self-protection

and use the recommended protective clothing

Avoid inhalation, ingestion and contact with skin and eyes. If potential for exposure exists refer to Section 8 for specific

personal protective equipment.

Notes to physician : Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Dry chemical, CO2, 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 prod: :

ucts

Fire may produce irritating, corrosive and/or toxic gases.

Carbon oxides

Nitrogen oxides (NOx) Chlorine compounds Hydrogen cyanide

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 fire-fighters

Firefighters should wear protective clothing and self-contained

breathing apparatus.

MAGISTER PLUS



SDS Number: Date of last issue: -Version Revision Date:

2024/04/26 50000559 Date of first issue: 2024/04/26 1.0

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- : tive equipment and emer-

gency procedures

Use personal protective equipment.

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

Beware of vapors accumulating to form explosive concentra-

tions. Vapors can accumulate in low areas.

Never return spills in original containers for re-use.

Mark the contaminated area with signs and prevent access to

unauthorized personnel.

Only qualified personnel equipped with suitable protective

equipment may intervene.

For disposal considerations see section 13.

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).

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 vapors).

Keep away from open flames, hot surfaces and sources of

ignition.

Advice on safe handling

Avoid formation of aerosol. Do not breathe vapors/dust.

Avoid exposure - obtain special instructions before use.

Avoid contact with skin and eves. 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.

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.

MAGISTER PLUS



Version Revision Date: SDS Number: Date of last issue: -

1.0 2024/04/26 50000559 Date of first issue: 2024/04/26

Further information on stor-

age stability

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
cyclohexanone	108-94-1	TWA	50 ppm	TH OEL
		TWA	20 ppm	ACGIH
		STEL	50 ppm	ACGIH
ethylene glycol monobutyl ether	111-76-2	TWA	50 ppm	TH OEL
		TWA	20 ppm	ACGIH

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sam- pling time	Permissible concentration	Basis
cyclohexanone	108-94-1	1,2- Cyclohex- anediol	Urine	End of shift at end of work- week	80 mg/l	ACGIH BEI
		Cyclohexa- nol	Urine	End of shift (As soon as possible after exposure ceases)	8 mg/l	ACGIH BEI
ethylene glycol mono- butyl ether	111-76-2	Butoxyace- tic acid (BAA)	Urine	End of shift (As soon as possible after exposure ceases)	200 mg/g creatinine	ACGIH BEI

Personal protective equipment

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

sonal respiratory protection and protective suit.

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

MAGISTER PLUS



Version Revision Date: SDS Number: Date of last issue: -

1.0 2024/04/26 50000559 Date of first issue: 2024/04/26

Tightly fitting safety goggles

Skin and body protection : Impervious clothing

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

Protective measures : Plan first aid action before beginning work with this product.

Always have on hand a first-aid kit, together with proper in-

structions.

Ensure that eye flushing systems and safety showers are

located close to the working place. Wear suitable protective equipment.

In the context of professional plant protection use as recommended, the end user must refer to the label and the instruc-

tions for use.

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 : liquid

Form : viscous liquid

Color : dark brown

Odor : mild

aromatic

Odor Threshold : No data available

pH : 5.5

(1% solution in water)

Melting point/freezing point : No data available

Initial boiling point and boiling :

range

No data available

Flash point : 60 °C

Flammability (liquids) : Sustains combustion

MAGISTER PLUS



Version Revision Date: SDS Number: Date of last issue: -

1.0 2024/04/26 50000559 Date of first issue: 2024/04/26

Self-ignition : not determined

Upper explosion limit / Upper

flammability limit

: No data available

Lower explosion limit / Lower

flammability limit

No data available

Vapor pressure : No data available

Relative vapor density : No data available

Relative density : No data available

Density : 1,310 g/l (20 °C)

Bulk density : 9.41 lb/gal

Solubility(ies)

Water solubility : emulsifiable

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

Not applicable

Autoignition temperature : No data available

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : not determined

Explosive properties : Not explosive

Oxidizing properties : Non-oxidizing

Metal corrosion rate : Not corrosive to metals.

Particle size : Not applicable

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

Vapors may form explosive mixture with air.

No decomposition if stored and applied as directed.

MAGISTER PLUS



Version Revision Date: SDS Number: Date of last issue: -

1.0 2024/04/26 50000559 Date of first issue: 2024/04/26

Conditions to avoid : Avoid extreme temperatures.

Heat, flames and sparks.

Incompatible materials : Avoid strong acids, bases, and oxidizers.

Hazardous decomposition

products

Stable under recommended storage conditions.

No decomposition if stored and applied as directed.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Harmful if swallowed or if inhaled.

Product:

Acute oral toxicity : LD50 (Rat, male and female): 1,087 mg/kg

Method: OECD Test Guideline 401

Remarks: Based on data from similar materials

Acute inhalation toxicity : LC50 (Rat, male and female): 3.77 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

Remarks: Based on data from similar materials

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

Remarks: Based on data from similar materials

Components:

propanil (ISO):

Acute oral toxicity : LD50 (Rat): 2,500 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 1.28 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): > 2,500 mg/kg

Method: OECD Test Guideline 402

Assessment: The substance or mixture has no acute dermal

toxicity

Clomazone:

Acute oral toxicity : LD50 (Rat, female): 768 mg/kg

Method: OECD Test Guideline 425

LD50 (Rat, female): 300 - 2,000 mg/kg

MAGISTER PLUS



Version Revision Date: SDS Number: Date of last issue: -

1.0 2024/04/26 50000559 Date of first issue: 2024/04/26

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

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:

Acute oral toxicity : LD50 (Rat, female): 3,492 mg/kg
Method: OECD Test Guideline 401

monioa. G2GB 166t Galacimic 161

LD50 (Rat, male): 6,984 mg/kg Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat, male and female): > 6.193 mg/l

Exposure time: 4 h
Test atmosphere: vapor

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Remarks: no mortality

Acute dermal toxicity : LD50 (Rabbit, male and female): > 3,160 mg/kg

Assessment: The component/mixture is minimally toxic after

single contact with skin.

cyclohexanone:

Acute oral toxicity : LD50 (Rat): 1,890 mg/kg

Acute inhalation toxicity : LC50 (Rat, male and female): > 6.2 mg/l

Exposure time: 4 h
Test atmosphere: vapor

Assessment: The component/mixture is moderately toxic after

short term inhalation.

dodecylbenzenesulphonic acid, compound with 2,2'-iminodiethanol (1:1):

MAGISTER PLUS



Version Revision Date: SDS Number: Date of last issue: -

1.0 2024/04/26 50000559 Date of first issue: 2024/04/26

Acute oral toxicity : LD50 (Rat): 775 mg/kg

Remarks: Based on data from similar materials

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

Assessment: The substance or mixture has no acute dermal

toxicity

Ethoxylated oleyl amine, dodecylbenzenesulhponic salt:

Acute oral toxicity : LD50 (Rat, male and female): 1,570 mg/kg

Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rabbit, male): 2,504 mg/kg

Method: OECD Test Guideline 402

LD50 (Rabbit, female): 2,881 mg/kg Method: OECD Test Guideline 402

ethylene glycol monobutyl ether:

Acute oral toxicity : LD50 (Rat, male and female): 1,414 mg/kg

Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Guinea pig, male and female): > 2.25 mg/l

Exposure time: 4 h
Test atmosphere: vapor

Method: OECD Test Guideline 433

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Acute dermal toxicity : LD50 (Guinea pig, 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

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

Product:

Species : Rabbit

Method : OECD Test Guideline 404

Result : No skin irritation

Remarks : Minimal effects that do not meet the threshold for classifica-

tion.

Based on data from similar materials

Components:

propanil (ISO):

Species : Rabbit

Result : No skin irritation

Clomazone:

Species : Rabbit

MAGISTER PLUS



Version Revision Date: SDS Number: Date of last issue: -

1.0 2024/04/26 50000559 Date of first issue: 2024/04/26

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

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:

Species : Rabbit

Method : OECD Test Guideline 404

Result : Mild skin irritation

cyclohexanone:

Species : Rabbit

Method : OECD Test Guideline 404

Result : Skin irritation

Remarks : Extremely corrosive and destructive to tissue.

dodecylbenzenesulphonic acid, compound with 2,2'-iminodiethanol (1:1):

Species : Rabbit

Method : OECD Test Guideline 404

Result : Skin irritation

Remarks : Based on data from similar materials

Ethoxylated oleyl amine, dodecylbenzenesulhponic salt:

Species : reconstructed human epidermis (RhE)

Method : OECD Test Guideline 431

Result : Skin irritation

ethylene glycol monobutyl ether:

Species : Rabbit

Method : Regulation (EC) No. 440/2008, Annex, B.4

Result : Skin irritation

Serious eye damage/eye irritation

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

Product:

Species : Rabbit

Result : No eye irritation

Method : OECD Test Guideline 405

Remarks : Minimal effects that do not meet the threshold for classifica-

tion.

Based on data from similar materials

Remarks : Vapors may cause irritation to the eyes, respiratory system

and the skin.

Components:

propanil (ISO):

Species : Rabbit

MAGISTER PLUS



Version Revision Date: SDS Number: Date of last issue: -

1.0 2024/04/26 50000559 Date of first issue: 2024/04/26

Result : No eye irritation

Clomazone:

Species : Rabbit

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

GLP : yes

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:

Species : Rabbit

Result : No eye irritation

cyclohexanone:

Result : Irreversible effects on the eye

Method : Hen egg chorioallantoic membrane bioassay

Remarks : May cause irreversible eye damage.

dodecylbenzenesulphonic acid, compound with 2,2'-iminodiethanol (1:1):

Species : Rabbit

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

Remarks : Based on data from similar materials

Ethoxylated oleyl amine, dodecylbenzenesulhponic salt:

Species : Rabbit

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

ethylene glycol monobutyl ether:

Species : Rabbit

Result : Irritation to eyes, reversing within 21 days

Method : OECD Test Guideline 405

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 : Magnussen-Kligman test

Species : Guinea pig

Method : OECD Test Guideline 406
Result : Not a skin sensitizer.

Remarks : Based on data from similar materials

MAGISTER PLUS



Version Revision Date: SDS Number: Date of last issue: -

1.0 2024/04/26 50000559 Date of first issue: 2024/04/26

Components:

propanil (ISO):

Species : Guinea pig

Result : Not a skin sensitizer.

Clomazone:

Species : Guinea pig

Assessment : Not a skin sensitizer.

Method : US EPA Test Guideline OPP 81-6

Result : Not a skin sensitizer.

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:

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

Method : OECD Test Guideline 406
Result : Not a skin sensitizer.

dodecylbenzenesulphonic acid, compound with 2,2'-iminodiethanol (1:1):

Test Type : Buehler Test Species : Guinea pig

Result : Not a skin sensitizer.

Remarks : Based on data from similar materials

Ethoxylated oleyl amine, dodecylbenzenesulhponic salt:

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

Method : OECD Test Guideline 406
Result : Not a skin sensitizer.

Remarks : Based on data from similar materials

ethylene glycol monobutyl ether:

Test Type : Maximization Test

Species : Guinea pig

Method : OECD Test Guideline 406

Result : Does not cause skin sensitization.

Germ cell mutagenicity

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

Components:

Clomazone:

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

MAGISTER PLUS



Version Revision Date: SDS Number: Date of last issue: -

1.0 2024/04/26 50000559 Date of first issue: 2024/04/26

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

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:

Genotoxicity in vitro : Test Type: in vitro DNA damage and/or repair study

Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation

Result: negative

Test Type: reverse mutation assay

Metabolic activation: with and without metabolic activation

Result: negative

Genotoxicity in vivo : Test Type: Bone marrow chromosome aberration.

Species: Rat (male and female) Application Route: Inhalation

Result: negative

cyclohexanone:

Genotoxicity in vitro : Test Type: in vitro DNA damage and/or repair study

Test system: human diploid fibroblasts Method: OECD Test Guideline 482

Result: negative

Test Type: reverse mutation assay Method: OECD Test Guideline 471

Result: negative

Test Type: In vitro mammalian cell gene mutation test

Method: OECD Test Guideline 476

Result: negative

Genotoxicity in vivo : Test Type: chromosome aberration assay

Species: Rat (male and female) Application Route: inhalation (vapor) Method: OECD Test Guideline 475

Result: negative

Test Type: dominant lethal test Species: Rat (male and female) Application Route: inhalation (vapor) Method: OECD Test Guideline 478

Result: negative

Species: Drosophila melanogaster (vinegar fly) (male and

female)

Application Route: Inhalation

MAGISTER PLUS



Version Revision Date: SDS Number: Date of last issue: -

1.0 2024/04/26 50000559 Date of first issue: 2024/04/26

Method: OECD Test Guideline 477

Result: negative

Germ cell mutagenicity -

Assessment

Weight of evidence does not support classification as a germ

cell mutagen.

dodecylbenzenesulphonic acid, compound with 2,2'-iminodiethanol (1:1):

Genotoxicity in vitro : Test Type: Ames test

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: Micronucleus test

Species: Mouse

Application Route: Intraperitoneal injection

Result: negative

Remarks: Based on data from similar materials

Ethoxylated oleyl amine, dodecylbenzenesulhponic salt:

Genotoxicity in vitro : Test Type: reverse mutation assay

Method: Mutagenicity (Salmonella typhimurium - reverse mu-

tation assay) Result: negative

Remarks: Based on data from similar materials

Test Type: gene mutation test

Test system: Chinese hamster ovary cells

Result: negative

Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: Rodent Dominant Lethal Assay

Species: Mouse (male) Result: negative

Remarks: Based on data from similar materials

ethylene glycol monobutyl ether:

Genotoxicity in vitro : Test Type: reverse mutation assay

Result: negative

Test Type: Chromosome aberration test in vitro

Result: negative

Test Type: gene mutation test

Result: negative

Genotoxicity in vivo : Test Type: In vivo micronucleus test

Species: Rat (male)

Application Route: Intraperitoneal injection

Result: negative

Germ cell mutagenicity -

Assessment

Weight of evidence does not support classification as a germ

cell mutagen.

MAGISTER PLUS



Version Revision Date: SDS Number: Date of last issue: -

1.0 2024/04/26 50000559 Date of first issue: 2024/04/26

Carcinogenicity

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

Components:

Clomazone:

Species : Rat, male and female

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

Species : Mouse

Method : OECD Test Guideline 453

Result : negative

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:

Carcinogenicity - Assess- : Limited evidence of carcinogenicity in animal studies

ment

cyclohexanone:

Species : Rat
Application Route : Oral
Exposure time : 104 weeks

Dose : (462 and 910 mg/kg/d

LOAEL : 3,300 ppm Result : positive

Carcinogenicity - Assess- : Weight of evidence does not support classification as a car-

ent cinogen

ethylene glycol monobutyl ether:

Species : Mouse, male Application Route : inhalation (vapor)

Exposure time : 2 Years

Dose : 0, 62.5, 125, 250 ppm

NOAEC : 125 ppm LOAEC : 250 ppm Result : negative

Species : Mouse, female Application Route : inhalation (vapor)

Exposure time : 2 Years

Dose : 0, 62.5, 125, 250 ppm

NOAEC : 125 ppm LOAEC : 250 ppm Result : negative

Carcinogenicity - Assess-

: Weight of evidence does not support classification as a car-

ment cinogen

MAGISTER PLUS



Version Revision Date: SDS Number: Date of last issue: -

1.0 2024/04/26 50000559 Date of first issue: 2024/04/26

Reproductive toxicity

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

Components:

Clomazone:

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

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:

Effects on fertility : Test Type: Three-generation study

Species: Rat

Application Route: inhalation (vapor) Fertility: NOAEC Mating/Fertility: 7.5 mg/l

Result: negative

Remarks: Based on data from similar materials

Effects on fetal development : Species: Mouse

Application Route: inhalation (vapor)

General Toxicity Maternal: LOAEC: 500 part per million

Symptoms: Maternal effects.

cyclohexanone:

Effects on fertility : Test Type: Two-generation study

Species: Rat

Application Route: inhalation (vapor)

Dose: 1.02, 2.04, 4.1 mg/l

General Toxicity Parent: NOAEC: 4.1 mg/l General Toxicity F1: NOAEC: 2.04 mg/l General Toxicity F2: NOAEC: 2.04 mg/l

Result: negative

Effects on fetal development : Species: Rabbit

Application Route: Oral Dose: 50, 250, 500 mg/kg b.w.

General Toxicity Maternal: NOAEL: 250 mg/kg body weight

Teratogenicity: NOAEL: 500 mg/kg body weight

Method: OECD Test Guideline 414 Result: No teratogenic effects.

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Version Revision Date: SDS Number: Date of last issue: -

1.0 2024/04/26 50000559 Date of first issue: 2024/04/26

Reproductive toxicity - As-

sessment

Animal testing did not show any effects on fertility.

ethylene glycol monobutyl ether:

Effects on fertility : Species: Mouse, male and female

Application Route: Oral

Dose: 720, 1340, 2050 mg/kg bw/day

General Toxicity Parent: LOAEL: 720 mg/kg bw/day General Toxicity F1: LOAEL: 1,340 mg/kg bw/day General Toxicity F2: LOAEL: 1,340 mg/kg bw/day

Result: negative

Effects on fetal development : Test Type: reproductive and developmental toxicity study

Species: Rat

Application Route: Oral

Dose: 0, 30, 100, 200 300, mg/kgbw

General Toxicity Maternal: LOAEL: 100 mg/kg bw/day Embryo-fetal toxicity.: LOAEC F1: 300 mg/kg bw/day

Result: negative

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.

Components:

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:

Assessment : May cause respiratory irritation.

May cause drowsiness or dizziness.

ethylene glycol monobutyl ether:

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

organ toxicant, single exposure.

STOT-repeated exposure

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

Components:

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:

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

organ toxicant, repeated exposure.

cyclohexanone:

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

organ toxicant, repeated exposure.

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SDS Number: Date of last issue: -Version Revision Date:

2024/04/26 50000559 Date of first issue: 2024/04/26 1.0

Repeated dose toxicity

Components:

Clomazone:

Species Rat, male and female

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

increased liver weight Symptoms

Species Rat LOAEL 400 mg/kg Exposure time 90 d

Method **OECD Test Guideline 408**

Liver effects **Symptoms**

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:

Species Rat, male and female

NOAEC $0.8 - 0.9 \,\text{mg/l}$ **Application Route** Inhalation Test atmosphere vapor

Remarks Based on data from similar materials

Species Rat, male NOAEL 600 mg/kg

Application Route Oral

Remarks Based on data from similar materials

cyclohexanone:

Species Rat, male and female

NOAEL 143 mg/kg **Application Route** Oral Exposure time 90 d

Dose 40, 143 and 407 mg/kg b.w. Method OECD Test Guideline 408

dodecylbenzenesulphonic acid, compound with 2,2'-iminodiethanol (1:1):

Species Rat, male and female

NOAEL 100 mg/kg 200 mg/kg LOAEL Oral - gavage **Application Route** Exposure time 43 days

OECD Test Guideline 422 Method

Based on data from similar materials Remarks

Ethoxylated oleyl amine, dodecylbenzenesulhponic salt:

Species Rat, male and female NOAEL 300 mg/kg bw/day Oral - feed **Application Route**

Exposure time >75 days

Remarks Based on data from similar materials

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Version Revision Date: SDS Number: Date of last issue: -

1.0 2024/04/26 50000559 Date of first issue: 2024/04/26

ethylene glycol monobutyl ether:

Species : Rat, male

NOAEL : < 69 mg/kg bw/day

Application Route : Oral Exposure time : 90 d

Species : Rat, male and female

LOAEL : 31 ppm
Application Route : Inhalation
Test atmosphere : vapor
Exposure time : 2 years

Species : Rabbit, male and female NOAEL : >150 mg/kg bw/day

Exposure time : 90 d

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:

Clomazone:

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

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:

May be fatal if swallowed and enters airways.

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.

Components:

Clomazone:

Remarks : When fed to animals, clomazone caused decreased activity,

tearing eyes, bleeding from the nose and incoordination.

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Version Revision Date: SDS Number: Date of last issue: -

1.0 2024/04/26 50000559 Date of first issue: 2024/04/26

12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

propanil (ISO):

Toxicity to fish : LC50 (Fish): 8 - 11 mg/l

Exposure time: 48 h

Toxicity to daphnia and other :

aquatic invertebrates

LC50 (Daphnia magna (Water flea)): 4.8 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

EC50 (Scenedesmus capricornutum (fresh water algae)): 0.11

mg/l

Exposure time: 72 h

M-Factor (Acute aquatic tox-

icity)

1

M-Factor (Chronic aquatic

toxicity)

: 1

Toxicity to soil dwelling or-

ganisms

LC50 (Eisenia fetida (earthworms)): 734 milligram per kilo-

gram

Exposure time: 14 d

Toxicity to terrestrial organ-

isms

(Colinus virginianus (Bobwhite quail)): 196 mg/kg

(Anas platyrhynchos (Mallard duck)): 375 mg/kg

(Birds): 2,861 - 5,627 ppm

(Apis mellifera (bees)): 240 µg/bee

Clomazone:

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 :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 40.8 mg/l

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

MAGISTER PLUS



Version Revision Date: SDS Number: Date of last issue: -

1.0 2024/04/26 50000559 Date of first issue: 2024/04/26

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

Toxicity to fish (Chronic tox-

icity)

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

Exposure time: 21 d

Test Type: flow-through test

NOEC (Oncorhynchus mykiss (rainbow trout)): 2.29 mg/l

Exposure time: 57 d

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

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

Exposure time: 21 d

NOEC (Americamysis bahia (mysid shrimp)): 0.032 mg/l

Exposure time: 28 d

Test Type: flow-through test

NOEC (Daphnia magna (Water flea)): 1.25 mg/l

Exposure time: 21 d Test Type: static test

Toxicity to soil dwelling or-

ganisms

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

Exposure time: 14 d

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Version Revision Date: SDS Number: Date of last issue: -

1.0 2024/04/26 50000559 Date of first issue: 2024/04/26

Toxicity to terrestrial organ-

isms

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

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

Remarks: Dietary

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

NOEC (Colinius virginianus): 94 mg/kg

End point: Reproduction Test

LC50 (Apis mellifera (bees)): > 85.29

LC50 (Apis mellifera (bees)): > 100

Remarks: Contact

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:

Toxicity to fish : NOEC (Oncorhynchus mykiss (rainbow trout)): 4.5 mg/l

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

Method: OECD Test Guideline 203

Remarks: Based on data from similar materials

LL50 (Pimephales promelas (fathead minnow)): 8.2 mg/l

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

Remarks: Based on data from similar materials

Toxicity to daphnia and other :

aquatic invertebrates

EL50 (Daphnia magna (Water flea)): 4.5 mg/l

Exposure time: 48 h Test Type: static test

Method: OECD Test Guideline 202

Remarks: Based on data from similar materials

Toxicity to algae/aquatic

plants

EL50 (Pseudokirchneriella subcapitata (microalgae)): 3.1 mg/l

Exposure time: 72 h Test Type: static test

Method: OECD Test Guideline 201

Remarks: Based on data from similar materials

Toxicity to fish (Chronic tox-

icity)

NOELR (Pimephales promelas (fathead minnow)): 2.6 mg/l

Exposure time: 14 d

Method: OECD Test Guideline 204

Remarks: Based on data from similar materials

Toxicity to daphnia and other :

aquatic invertebrates (Chron-

ic toxicity)

NOELR (Daphnia magna (Water flea)): 2.6 mg/l

Exposure time: 21 d

Method: OECD Test Guideline 211

Toxicity to microorganisms : EC50 (Tetrahymena pyriformis): 15.41 mg/l

Exposure time: 40 h

Test Type: Growth inhibition

Remarks: The value is given based on a SAR/AAR approach

using OECD Toolbox, DEREK, VEGA QSAR models

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Version Revision Date: SDS Number: Date of last issue: -

1.0 2024/04/26 50000559 Date of first issue: 2024/04/26

(CAESAR models), etc.

Ecotoxicology Assessment

Acute aquatic toxicity : Toxic to aquatic life.

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

cyclohexanone:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 527 - 732

mg/l

Exposure time: 96 h

Test Type: flow-through test

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 100 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Remarks: Based on data from similar materials

Toxicity to algae/aquatic

plants

EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Remarks: Based on data from similar materials

NOEC (Desmodesmus subspicatus (green algae)): > 100 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Remarks: Based on data from similar materials

Toxicity to microorganisms : EC50 (activated sludge): > 1,000 mg/l

Exposure time: 30 min

Method: OECD Test Guideline 209

dodecylbenzenesulphonic acid, compound with 2,2'-iminodiethanol (1:1):

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 190 mg/l

Exposure time: 96 h

Remarks: Based on data from similar materials

Ethoxylated oleyl amine, dodecylbenzenesulhponic salt:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 1.67 mg/l

Exposure time: 96 h Test Type: static test

Remarks: Based on data from similar materials

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 2.9 mg/l

Exposure time: 48 h Test Type: static test

Method: OECD Test Guideline 202

Remarks: Based on data from similar materials

Toxicity to algae/aquatic

plants

EC50 (Desmodesmus subspicatus (green algae)): 16.8 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

MAGISTER PLUS



Version Revision Date: SDS Number: Date of last issue: -

1.0 2024/04/26 50000559 Date of first issue: 2024/04/26

Remarks: Based on data from similar materials

NOEC (Desmodesmus subspicatus (green algae)): 5.7 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 201

Toxicity to fish (Chronic tox-

icity)

NOEC (Oncorhynchus mykiss (rainbow trout)): 0.23 mg/l

Exposure time: 196 d

Remarks: Based on data from similar materials

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

NOEC: 2.9 mg/l Exposure time: 32 d

Method: OECD Test Guideline 211

Remarks: Based on data from similar materials

Toxicity to soil dwelling or-

ganisms

LC50 (Eisenia fetida (earthworms)): > 1,000 mg/kg

Exposure time: 14 d

NOEC (Eisenia fetida (earthworms)): 250 mg/kg

Exposure time: 14 d

ethylene glycol monobutyl ether:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 1,474 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 1,550 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

EC50 (Pseudokirchneriella subcapitata (green algae)): 623

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (green algae)): 62.5

ma/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Toxicity to fish (Chronic tox-

icity)

NOEC (Danio rerio (zebra fish)): > 100 mg/l

Exposure time: 21 d

Method: OECD Test Guideline 204

NOEC (Oryzias latipes (Orange-red killifish)): > 100 mg/l

Exposure time: 14 d

Method: OECD Test Guideline 204

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

NOEC (Daphnia magna (Water flea)): 100 mg/l

Exposure time: 21 d

Method: OECD Test Guideline 211

Toxicity to microorganisms : (Pseudomonas putida): 700 mg/l

Exposure time: 16 h

MAGISTER PLUS



Version Revision Date: SDS Number: Date of last issue: -

1.0 2024/04/26 50000559 Date of first issue: 2024/04/26

(Protozoa): 73 mg/l Exposure time: 72 h

(Protozoa): 463 mg/l Exposure time: 48 h

Test Type: Cell multiplication inhibition test

Persistence and degradability

Components:

Clomazone:

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.

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:

Biodegradability : Concentration: 49.2 mg/l

Result: Inherently biodegradable.

Biodegradation: 77.05 % Exposure time: 28 d

Method: OECD Test Guideline 301F

cyclohexanone:

Biodegradability : Result: Readily biodegradable.

Method: OECD Test Guideline 301F

dodecylbenzenesulphonic acid, compound with 2,2'-iminodiethanol (1:1):

Biodegradability : Result: Readily biodegradable.

Remarks: Based on data from similar materials

Ethoxylated oleyl amine, dodecylbenzenesulhponic salt:

Biodegradability : Result: Readily biodegradable.

Biodegradation: 85 % Exposure time: 29 d

Method: OECD Test Guideline 301B

ethylene glycol monobutyl ether:

Biodegradability : Inoculum: activated sludge

Result: Readily biodegradable. Biodegradation: 90.4 %

Exposure time: 28 d

Method: OECD Test Guideline 301B

MAGISTER PLUS



Version Revision Date: SDS Number: Date of last issue: -

1.0 2024/04/26 50000559 Date of first issue: 2024/04/26

Bioaccumulative potential

Components:

Clomazone:

Bioaccumulation : Bioconcentration factor (BCF): 27 - 40

Remarks: Low potential for bioaccumulation

Partition coefficient: n- : log Pow: 2.61 - 2.69 (20 - 21 °C)

octanol/water pH: 4 - 10

Method: Regulation (EC) No. 440/2008, Annex, A.8

cyclohexanone:

Partition coefficient: n-

octanol/water

log Pow: 0.86 (25 °C)

dodecylbenzenesulphonic acid, compound with 2,2'-iminodiethanol (1:1):

Partition coefficient: n- : log Pow: 4.28

octanol/water

Ethoxylated oleyl amine, dodecylbenzenesulhponic salt:

Bioaccumulation : Bioconcentration factor (BCF): 2 - 1,000

Method: OECD Test Guideline 305E

Partition coefficient: n-

octanol/water

log Pow: 1.51

ethylene glycol monobutyl ether:

Partition coefficient: n- : log Pow: 0.81 (25 °C)

octanol/water pH: 7

Mobility in soil

Components:

Clomazone:

Distribution among environ: Koc: 300 ml/g, log Koc: 2.47

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.

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

MAGISTER PLUS



Version Revision Date: SDS Number: Date of last issue: -

1.0 2024/04/26 50000559 Date of first issue: 2024/04/26

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.

14. TRANSPORT INFORMATION

International Regulations

UNRTDG

UN number : UN 1993

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

(Cyclohexanone, Clomazone, Propanil)

Class : 3
Packing group : III
Labels : 3
Environmentally hazardous : no

IATA-DGR

UN/ID No. : UN 1993

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

(Cyclohexanone, Clomazone, Propanil)

Class : 3 Packing group : III

Labels : Flammable Liquids

Packing instruction (cargo : 366

aircraft)

Packing instruction (passen: 355

ger aircraft)

IMDG-Code

UN number : UN 1993

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

(Cyclohexanone, Clomazone, Propanil)

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.

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.

MAGISTER PLUS



Version Revision Date: SDS Number: Date of last issue: -

1.0 2024/04/26 50000559 Date of first issue: 2024/04/26

15. REGULATORY INFORMATION

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

Hazardous Substance Act : Conditions of restriction for the fol-

lowing entries should be considered:

propanil

(Number on list 383)

clomazone

(Number on list 120)

Emergency Decree on Controlling the Use of Volatile

Substances

: Not applicable

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.

2,(2-chlorobenzyl)-4,4-dimethyl-1,2-oxazoldin-3-on Ethoxylated oleyl amine, dodecylbenzenesulhponic salt

propanil (ISO)

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

16. OTHER INFORMATION

Revision Date : 2024/04/26

Date format : yyyy/mm/dd

Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)
ACGIH BEI : ACGIH - Biological Exposure Indices (BEI)

MAGISTER PLUS



Version Revision Date: SDS Number: Date of last issue: -

1.0 2024/04/26 50000559 Date of first issue: 2024/04/26

TH OEL : Thailand. Occupational Exposure Limits

ACGIH / TWA : 8-hour, time-weighted average ACGIH / STEL : Short-term exposure limit TH OEL / TWA : 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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