COMMAND PLUS 600 EC



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

1.0 2024/05/10 50001576 Date of first issue: 2024/05/10

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : COMMAND PLUS 600 EC

Other means of identification : Clomazone + Propanil 200/400 g/L EC

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 Agro Philippines, Inc.

Address : Unit 10-A Six/NEO Bldg.,

5th Avenue cor. 26th Street,

1634 Bonifacio Global City, Taguig City

Philippines

Telephone : +63279443400

Telefax : +63279443465

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

National Poison Control Cen-

ter

U.P. PGH, Padre Faura, Manila (+63) 2 8524 1078 East Avenue, Quezon City (+63) 2 8928 0611

Southern Philippines Medical Center (+63) 82 227 2731

(formerly Davao Medical Center Davao City)

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

+(63) 2-395-3308 (CHEMTREC)

Toll-free mobile enabled: 1800 1 322 0553 (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

Carcinogenicity : Category 2

COMMAND PLUS 600 EC



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

1.0 2024/05/10 50001576 Date of first issue: 2024/05/10

Short-term (acute) aquatic

hazard

Category 1

Long-term (chronic) aquatic

hazard

Category 1

GHS label elements

Hazard pictograms









Signal Word : Warning

Hazard Statements : H226 Flammable liquid and vapor.

H302 + H332 Harmful if swallowed or if inhaled.

H351 Suspected of causing cancer.

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/ protective clothing/ eye protec-

tion/ face protection.

Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON

CENTER/ doctor if you feel unwell. Rinse mouth.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/

doctor if you feel unwell.

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

attention.

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

alcohol-resistant foam to extinguish.

P391 Collect spillage.

COMMAND PLUS 600 EC



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

1.0 2024/05/10 50001576 Date of first issue: 2024/05/10

Storage:

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	35.4
Clomazone	81777-89-1	17.7
cyclohexanone	108-94-1	>= 10 -< 20
Solvent naphtha (petroleum), light arom.; Low	64742-95-6	>= 10 -< 20
boiling point naphtha -unspecified		
Dodecylbenzenesulfonic acid, diethanolamine	26545-53-9	>= 10 -< 20
salt		
Ethoxylated oleyl amine, dodecylbenzene-	66467-20-7	>= 1 -< 3
sulhponic salt		
2-butoxyethanol	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.

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 : If on skin, rinse well with water.

If on clothes, remove clothes.

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. Take victim immediately to hospital.

COMMAND PLUS 600 EC



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

1.0 2024/05/10 50001576 Date of first issue: 2024/05/10

Most important symptoms and effects, both acute and

delayed

Harmful if swallowed or if inhaled. Suspected of causing cancer.

Notes to physician : Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Alcohol-resistant foam

Carbon dioxide (CO2)

Dry chemical Water spray

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)

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 fire-fighters

Wear self-contained breathing apparatus for firefighting if nec-

essary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emer-

gency procedures

: Use personal protective equipment.

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.

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).

COMMAND PLUS 600 EC



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

1.0 2024/05/10 50001576 Date of first issue: 2024/05/10

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 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.

Conditions for safe storage : I

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.

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 200 mg/m3	PH OEL
		TWA	20 ppm	ACGIH
		STEL	50 ppm	ACGIH
Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified	64742-95-6	TWA	500 ppm 2,000 mg/m3	PH OEL
		TWA	200 mg/m3 (total hydrocarbon vapor)	ACGIH
2-butoxyethanol	111-76-2	TWA	50 ppm 240 mg/m3	PH OEL

COMMAND PLUS 600 EC



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

1.0 2024/05/10 50001576 Date of first issue: 2024/05/10

Further information: Skin			
	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
2-butoxyethanol	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

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.

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

COMMAND PLUS 600 EC



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

1.0 2024/05/10 50001576 Date of first issue: 2024/05/10

Color : dark brown

Odor : mild, aromatic

pH : 5.5

Melting point/freezing point : not determined

Boiling point/boiling range : not determined

Flash point : 60 °C

Self-ignition : No data available

Density : 1.13 g/cm3 (20 °C)

Bulk density : 9.41 lb/gal

Solubility(ies)

Water solubility : emulsifiable

Partition coefficient: n-

octanol/water

Not applicable

Viscosity

Viscosity, kinematic : not determined

Explosive properties : Not explosive

Oxidizing properties : The product is not 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.

Vapors may form explosive mixture with air.

Conditions to avoid : Heat, flames and sparks.

Incompatible materials : Strong acids

Strong oxidizing agents

Strong bases

COMMAND PLUS 600 EC



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

1.0 2024/05/10 50001576 Date of first issue: 2024/05/10

Hazardous decomposition

products

Stable under recommended storage conditions.

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 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

COMMAND PLUS 600 EC



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

1.0 2024/05/10 50001576 Date of first issue: 2024/05/10

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

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.

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

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.

Dodecylbenzenesulfonic acid, diethanolamine salt:

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

COMMAND PLUS 600 EC



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

1.0 2024/05/10 50001576 Date of first issue: 2024/05/10

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

2-butoxyethanol:

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

Not classified based on available information.

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

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

cyclohexanone:

COMMAND PLUS 600 EC



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

1.0 2024/05/10 50001576 Date of first issue: 2024/05/10

Species : Rabbit

Method : OECD Test Guideline 404

Result : Skin irritation

Remarks : Extremely corrosive and destructive to tissue.

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

Species : Rabbit

Method : OECD Test Guideline 404

Result : Mild skin irritation

Dodecylbenzenesulfonic acid, diethanolamine salt:

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

2-butoxyethanol:

Species : Rabbit

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

Result : Skin irritation

Serious eye damage/eye irritation

Not classified based on available information.

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

Components:

propanil (ISO):

Species : Rabbit

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

COMMAND PLUS 600 EC



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

1.0 2024/05/10 50001576 Date of first issue: 2024/05/10

cyclohexanone:

Result : Irreversible effects on the eye

Method : Hen egg chorioallantoic membrane bioassay

Remarks : May cause irreversible eye damage.

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

Species : Rabbit

Result : No eye irritation

Dodecylbenzenesulfonic acid, diethanolamine salt:

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

2-butoxyethanol:

Species : Rabbit

Result : Irritation to eyes, reversing within 21 days

Method : OECD Test Guideline 405

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

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

Components:

propanil (ISO):

Species : Guinea pig

Result : Not a skin sensitizer.

Clomazone:

Species : Guinea pig

COMMAND PLUS 600 EC



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

1.0 2024/05/10 50001576 Date of first issue: 2024/05/10

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.

Dodecylbenzenesulfonic acid, diethanolamine salt:

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

2-butoxyethanol:

Test Type : Maximization Test Species : Guinea pig

Method : OECD Test Guideline 406

Result : Does not cause skin sensitization.

Germ cell mutagenicity

Not classified based on available information.

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

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

COMMAND PLUS 600 EC



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

1.0 2024/05/10 50001576 Date of first issue: 2024/05/10

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 Method: OECD Test Guideline 477

Result: negative

Germ cell mutagenicity -

Assessment

Weight of evidence does not support classification as a germ

cell mutagen.

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

Dodecylbenzenesulfonic acid, diethanolamine salt:

Genotoxicity in vitro : Test Type: Ames test

COMMAND PLUS 600 EC



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

1.0 2024/05/10 50001576 Date of first issue: 2024/05/10

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

2-butoxyethanol:

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.

Carcinogenicity

Suspected of causing cancer.

Components:

Clomazone:

Species : Rat, male and female

Application Route : Oral

COMMAND PLUS 600 EC



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

1.0 2024/05/10 50001576 Date of first issue: 2024/05/10

Exposure time : 2 Years
Result : negative

Species : Mouse

Method : OECD Test Guideline 453

Result : negative

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-

ment

Weight of evidence does not support classification as a car-

cinogen

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

Carcinogenicity - Assess-

ment

: Limited evidence of carcinogenicity in animal studies

2-butoxyethanol:

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-

ment

Weight of evidence does not support classification as a car-

cinogen

Reproductive toxicity

Not classified based on available information.

Components:

Clomazone:

Effects on fertility : Test Type: Two-generation study

Species: Rat, male and female

Application Route: Oral

Result: negative

COMMAND PLUS 600 EC



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

1.0 2024/05/10 50001576 Date of first issue: 2024/05/10

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

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.

Reproductive toxicity - As-

sessment

Animal testing did not show any effects on fertility.

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.

2-butoxyethanol:

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

COMMAND PLUS 600 EC



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

1.0 2024/05/10 50001576 Date of first issue: 2024/05/10

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

Not classified based on available information.

Components:

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

Assessment : May cause respiratory irritation.

May cause drowsiness or dizziness.

2-butoxyethanol:

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

organ toxicant, single exposure.

STOT-repeated exposure

Not classified based on available information.

Components:

cyclohexanone:

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

organ toxicant, repeated exposure.

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.

Repeated dose toxicity

Components:

Clomazone:

Species : Rat, male and female

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

Symptoms : increased liver weight

Species : Rat LOAEL : 400 mg/kg Exposure time : 90 d

COMMAND PLUS 600 EC



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

2024/05/10 50001576 Date of first issue: 2024/05/10 1.0

Method **OECD Test Guideline 408**

Liver effects **Symptoms**

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

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

Based on data from similar materials Remarks

Dodecylbenzenesulfonic acid, diethanolamine salt:

Species Rat, male and female

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

OECD Test Guideline 422 Method

Remarks Based on data from similar materials

Ethoxylated oleyl amine, dodecylbenzenesulhponic salt:

Species Rat, male and female NOAEL 300 mg/kg bw/day

Application Route : Oral - feed Exposure time : >75 days

Remarks Based on data from similar materials

2-butoxyethanol:

Species Rat, male

NOAEL < 69 mg/kg bw/day

Application Route Oral 90 d Exposure time

Species Rat, male and female

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

Species Rabbit, male and female

COMMAND PLUS 600 EC



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

1.0 2024/05/10 50001576 Date of first issue: 2024/05/10

NOAEL : >150 mg/kg bw/day

Exposure time : 90 d

Aspiration toxicity

Not classified based on available information.

Product:

No aspiration toxicity classification

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 : Solvents may degrease the skin.

Components:

Clomazone:

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

tearing eyes, bleeding from the nose and incoordination.

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/

Exposure time: 72 h

M-Factor (Acute aquatic tox-

icity)

: 1

M-Factor (Chronic aquatic

toxicity)

: 1

COMMAND PLUS 600 EC



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

1.0 2024/05/10 50001576 Date of first issue: 2024/05/10

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 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

COMMAND PLUS 600 EC



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

1.0 2024/05/10 50001576 Date of first issue: 2024/05/10

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

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

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

COMMAND PLUS 600 EC



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

1.0 2024/05/10 50001576 Date of first issue: 2024/05/10

aquatic invertebrates 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

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

COMMAND PLUS 600 EC



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

1.0 2024/05/10 50001576 Date of first issue: 2024/05/10

using OECD Toolbox, DEREK, VEGA QSAR models

(CAESAR models), etc.

Ecotoxicology Assessment

Acute aquatic toxicity : Toxic to aquatic life.

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

Dodecylbenzenesulfonic acid, diethanolamine salt:

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

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

2-butoxyethanol:

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

Exposure time: 96 h

COMMAND PLUS 600 EC



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

2024/05/10 50001576 Date of first issue: 2024/05/10 1.0

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

mg/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

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

Exposure time: 16 h

(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.

cyclohexanone:

Biodegradability Result: Readily biodegradable.

Method: OECD Test Guideline 301F

COMMAND PLUS 600 EC



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

1.0 2024/05/10 50001576 Date of first issue: 2024/05/10

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

Dodecylbenzenesulfonic acid, diethanolamine salt:

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

2-butoxyethanol:

Biodegradability : Inoculum: activated sludge

Result: Readily biodegradable. Biodegradation: 90.4 %

Exposure time: 28 d

Method: OECD Test Guideline 301B

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)

Dodecylbenzenesulfonic acid, diethanolamine salt:

Partition coefficient: n-

octanol/water

: log Pow: 4.28

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

COMMAND PLUS 600 EC



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

1.0 2024/05/10 50001576 Date of first issue: 2024/05/10

2-butoxyethanol:

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

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)

COMMAND PLUS 600 EC



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

1.0 2024/05/10 50001576 Date of first issue: 2024/05/10

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.

15. REGULATORY INFORMATION

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

Priority Chemical List (PCL) : Not applicable

Chemical Control Order (CCO) : 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

COMMAND PLUS 600 EC



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

1.0 2024/05/10 50001576 Date of first issue: 2024/05/10

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 : 2024/05/10

Date format : yyyy/mm/dd

Full text of other abbreviations

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

PH OEL : Philippines. Threshold Limit Values For Airborne Contami-

nants

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

PH OEL / TWA : Threshold limit for airborne contaminants

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

COMMAND PLUS 600 EC



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

1.0 2024/05/10 50001576 Date of first issue: 2024/05/10

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

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