Cadusafos 200 CS



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

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1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Cadusafos 200 CS

Recommended use of the chemical and restrictions on use

Recommended use : Insecticide

Restrictions on use : Use as recommended by the label.

Manufacturer or supplier's details

Company : FMC Corporation

Address : 2929 WALNUT ST

PHILADELPHIA PA 19104

USA

Telephone : (215) 299-6000

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

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

001-803-017-9114 (CHEMTREC)

1 703 / 741-5970 (CHEMTREC - International)

Medical emergency: 0800 140 1447

2. HAZARDS IDENTIFICATION

GHS Classification

Acute toxicity (Oral) : Category 4

Acute toxicity (Inhalation) : Category 4

Specific target organ toxicity -

single exposure

Category 2 (Peripheral nervous system, Central nervous sys-

tem)

Specific target organ toxicity - :

repeated exposure

Category 2 (Blood, Central nervous system)

Short-term (acute) aquatic

hazard

Category 1

Long-term (chronic) aquatic

hazard

Category 1

GHS label elements

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Hazard pictograms :







Signal Word : Warning

Hazard Statements : H302 + H332 Harmful if swallowed or if inhaled.

H371 May cause damage to organs (Peripheral nervous sys-

tem, Central nervous system).

H373 May cause damage to organs (Blood, Central nervous

system) through prolonged or repeated exposure. H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements :

Prevention:

P260 Do not breathe 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.

Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON

CENTER/ doctor if you feel unwell. Rinse mouth.

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 + P311 IF exposed or concerned: Call a POISON

CENTER/ doctor. P391 Collect spillage.

Storage:

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)
Cadusafos Technical	95465-99-9	>= 10 -< 25
Solvent naphtha (petroleum), heavy arom.;	64742-94-5	>= 2,5 -< 10
Kerosine — unspecified		

4. FIRST AID MEASURES

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General advice : Move out of dangerous area.

Consult a physician.

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 clothes, remove clothes.

If on skin, rinse well with water.

Wash off with soap and plenty of water.

Get medical attention if irritation develops and persists.

In case of eye contact : Small amounts splashed into eyes can cause irreversible tis-

sue damage and blindness.

In the case of contact with eyes, rinse immediately with plenty

of water and seek medical advice.

Continue rinsing eyes during transport to hospital.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

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

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

. .

Harmful if swallowed or if inhaled. May cause damage to organs.

and effects, both acute and May cause da delayed May cause da

May cause damage to organs through prolonged or repeated

exposure.

Protection of first-aiders : Avoid inhalation, ingestion and contact with skin and eyes.

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

Thermal decomposition can lead to release of irritating gases

and vapors.

phosphorus oxides Carbon oxides

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Sulfur oxides Ammonia

Specific extinguishing meth-

ods

Remove undamaged containers from fire area if it is safe to do

SO.

Use a water spray to cool fully closed containers.

Standard procedure for chemical fires.

Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment.

Special protective equipment :

for fire-fighters

Firefighters should wear protective clothing and self-contained

breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emer-

gency procedures

Use personal protective equipment.

Ensure adequate ventilation. Evacuate personnel to safe areas. If it can be safely done, stop the leak.

Do not touch or walk through the spilled material.

Remove all sources of ignition.

Environmental precautions

Prevent further leakage or spillage if safe to do so.

Prevent product from entering drains.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for containment and cleaning up

Never return spills in original containers for re-use.

Collect as much of the spill as possible with a suitable absor-

bent material.

Pick up and transfer to properly labeled containers.

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).

Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Advice on protection against :

fire and explosion

Normal measures for preventive fire protection.

Do not spray on a naked flame or any incandescent material. Keep away from open flames, hot surfaces and sources of

ianition.

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.

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Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national

regulations.

Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being

used.

Conditions for safe storage : No smoking.

Keep in a 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	
Phosphorodithioic acid, O- ethyl S,S-bis(1-methylpropyl) ester	95465-99-9	TWA (Inhalable fraction and vapor)	0,001 mg/m3	ACGIH	
Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified	64742-94-5	TWA	200 mg/m3 (total hydrocarbon vapor)	ACGIH	
hexamethylenediamine	124-09-4	NAB	0,5 ppm	ID OEL	
	Further information: Upper respiratory tract irritation, Skin irritation				
		TWA	0,5 ppm	ACGIH	
phosphoric acid	7664-38-2	NAB	1 mg/m3	ID OEL	
		PSD	3 mg/m3	ID OEL	
		TWA	1 mg/m3	ACGIH	
		STEL	3 mg/m3	ACGIH	

Personal protective equipment

Respiratory protection : In the case of dust or aerosol formation use respirator with an

approved filter.

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

Wear face-shield and protective suit for abnormal processing

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problems.

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.

Hygiene measures : Avoid contact with skin, eyes and clothing.

Provide adequate ventilation. When using do not eat or drink. When using do not smoke.

Wash hands before breaks and immediately after handling

the product.

Do not inhale aerosol.

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 : light green

Odor : mercaptanic-like

Odor Threshold : No data available

pH : 7,4 - 7,9

Melting point/range : No data available

Boiling point/boiling range : 72 °C

Flash point : 89 - 92 °C

Method: closed cup

Evaporation rate : No data available

Flammability (solid, gas) : Not applicable

Self-ignition : No data available

Upper explosion limit / Upper

flammability limit

No data available

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Lower explosion limit / Lower

flammability limit

No data available

Vapor pressure : No data available

Relative vapor density : No data available

Relative density : 1,05 - 1,07 (20 °C)

Density : 1,0633 g/cm3 (20 °C)

Solubility(ies)

Water solubility : emulsifiable

Partition coefficient: n-

octanol/water

Not applicable

Autoignition temperature : No data available

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : 239,34 mPa.s (20 °C)

Viscosity, kinematic : No data available

Explosive properties : Not explosive

Oxidizing properties : Non-oxidizing

Molecular weight : 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

No decomposition if stored and applied as directed.

Vapors may form explosive mixture with air.

Conditions to avoid : Avoid extreme temperatures.

Avoid formation of aerosol. Heat, flames and sparks.

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

Hazardous decomposition

products

Stable under recommended storage conditions.

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11. TOXICOLOGICAL INFORMATION

Acute toxicity

Harmful if swallowed or if inhaled.

Product:

Acute oral toxicity : LD50 (Rat, male): > 2.000 mg/kg

Method: US EPA Test Guideline OPP 81-1

LD50 (Rat, female): 1.097 mg/kg

Method: US EPA Test Guideline OPP 81-1

Acute inhalation toxicity : LC50 (Rat): > 3,87 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: US EPA Test Guideline OPP 81-3

Acute dermal toxicity : LD50 (Rat): > 5.000 mg/kg

Method: US EPA Test Guideline OPP 81-2

Assessment: The substance or mixture has no acute dermal

toxicity

Components:

Cadusafos Technical:

Acute oral toxicity : LD50 (Rat, female): 34 - 51 mg/kg

Method: US EPA Test Guideline OPP 81-1

Symptoms: Diarrhea, hemorrhage

LD50 (Mouse): 71,4 mg/kg

Acute inhalation toxicity : LC50 (Rat, male and female): 0,026 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: US EPA Test Guideline OPP 81-3 Symptoms: Breathing difficulties, Tremors

Acute dermal toxicity : LD50 (Rabbit, male): 7 - 17 mg/kg

Method: US EPA Test Guideline OPP 81-2

LD50 (Rabbit, female): 5 - 16 mg/kg

Method: US EPA Test Guideline OPP 81-2

Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

Acute oral toxicity : LD50 (Rat, male and female): > 5.000 mg/kg

Method: OECD Test Guideline 401

Remarks: Based on data from similar materials

Acute inhalation toxicity : LC50 (Rat): > 4,688 mg/l

Exposure time: 4 h
Test atmosphere: vapor

Assessment: The substance or mixture has no acute inhala-

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tion toxicity

Acute dermal toxicity : LD50 (Rabbit): > 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 : US EPA Test Guideline OPP 81-5

Result : No skin irritation

Components:

Cadusafos Technical:

Species : Rabbit

Result : No skin irritation

Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

Species : Rabbit

Assessment : Repeated exposure may cause skin dryness or cracking.

Result : No skin irritation

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

tion.

Based on data from similar materials

Serious eye damage/eye irritation

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

Product:

Species : Rabbit

Result : No eye irritation

Method : US EPA Test Guideline OPP 81-4

Components:

Cadusafos Technical:

Species : Rabbit

Result : No eye irritation
Method : Draize Test

Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

Species : Rabbit

Assessment : No eye irritation

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

tion.

Based on data from similar materials

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Respiratory or skin sensitization

Skin sensitization

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

Respiratory sensitization

Not classified due to lack of data.

Product:

Species : Guinea pig

Method : US EPA Test Guideline OPP 81-6

Result : Not a skin sensitizer.

Components:

Cadusafos Technical:

Routes of exposure : Skin contact Species : Guinea pig

Result : Not a skin sensitizer.

Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

Test Type : Maximization Test

Species : Guinea pig

Result : Not a skin sensitizer.

Remarks : Based on data from similar materials

Germ cell mutagenicity

Not classified due to lack of data.

Product:

Germ cell mutagenicity -

Assessment

: Contains no ingredient listed as a mutagen

Components:

Cadusafos Technical:

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test

Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation

Result: negative

Test Type: Ames test

Metabolic activation: with and without metabolic activation

Result: negative

Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

Genotoxicity in vitro : Test Type: reverse mutation assay

Method: OECD Test Guideline 471

Result: negative

Remarks: Based on data from similar materials

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

Species: Rat

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Application Route: inhalation (vapor)

Result: negative

Carcinogenicity

Not classified due to lack of data.

Product:

Carcinogenicity - Assess-

ment

Contains no ingredient listed as a carcinogen

Components:

Cadusafos Technical:

Carcinogenicity - Assess-

ment

: Animal testing did not show any carcinogenic effects.

Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

Species : Rat, male and female
Application Route : inhalation (vapor)
Exposure time : 12 month(s)
NOAEC : 1,8 mg/l
Result : negative

Remarks : Based on data from similar materials

Carcinogenicity - Assess-

ment

Not classifiable as a human carcinogen.

Reproductive toxicity

Not classified due to lack of data.

Product:

Reproductive toxicity - As-

sessment

: Contains no ingredient listed as toxic to reproduction

Components:

Cadusafos Technical:

Reproductive toxicity - As-

sessment

Animal testing showed no reproductive toxicity.

Animal testing showed no developmental toxicity.

STOT-single exposure

May cause damage to organs (Peripheral nervous system, Central nervous system).

Product:

Target Organs : Peripheral nervous system, Central nervous system

Assessment : The substance or mixture is classified as specific target organ

toxicant, single exposure, category 2.

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Components:

Cadusafos Technical:

Target Organs : Nervous system

Assessment : The substance or mixture is classified as specific target organ

toxicant, single exposure, category 1.

STOT-repeated exposure

May cause damage to organs (Blood, Central nervous system) through prolonged or repeated exposure.

Product:

Target Organs : Blood, Central nervous system

Assessment : The substance or mixture is classified as specific target organ

toxicant, repeated exposure, category 2.

Components:

Cadusafos Technical:

Target Organs : Nervous system

Assessment : The substance or mixture is classified as specific target organ

toxicant, repeated exposure, category 1.

Repeated dose toxicity

Components:

Cadusafos Technical:

Species : Mouse, male
NOAEL : 2,45 mg/kg
LOAEL : 8 mg/kg
Application Route : Oral - feed
Exposure time : 28 d

Dose : 0.83, 2.45, 8.0

GLP : yes

Symptoms : Red blood cell acetylcholinesterase inhibition

Species : Rat, male LOAEL : 4,7 mg/kg Application Route : Oral - feed Exposure time : 28 d

Dose : 0, 4.7, 9.3, 19.6, 39.9, 56.2

GLP : yes

Symptoms : Red blood cell acetylcholinesterase inhibition

Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

Species : Rat, male and female

NOAEC : 0,9 - 1,8 mg/l
Application Route : inhalation (vapor)
Exposure time : 12 months

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Aspiration toxicity

Not classified due to lack of data.

Components:

Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

May be fatal if swallowed and enters airways.

Experience with human exposure

Components:

Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

Skin contact : Symptoms: Repeated exposure may cause skin dryness or

cracking.

Further information

Product:

Remarks : No data available

Components:

Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

Remarks : Vapour concentrations above recommended exposure levels

are irritating to the eyes and the respiratory tract, may cause headaches and dizziness, are anaesthetic and may have other central nervous system effects. Prolonged and/or repeated skin contact with low viscosity materials may defat the skin resulting in possible irritation and dermatitis. Small amounts of liquid aspirated into the lungs during ingestion or from vomiting may cause chemical pneumonitis or pulmonary edema.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 88,86 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia similis (Water flea)): 0,034 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

EC50 (Selenastrum capricornutum (green algae)): 53,60 mg/l

Exposure time: 96 h

Toxicity to soil dwelling or-

ganisms

(Eisenia fetida (earthworms)): 90,94 mg/kg

Exposure time: 14 d

Toxicity to terrestrial organ-

isms

LD50 (Coturnix japonica (Japanese quail)): 650 mg/kg

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LD50 (Apis mellifera (bees)): 73.10

Exposure time: 48 h

Components:

Cadusafos Technical:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0,13 mg/l

Exposure time: 96 h

LC50 (Lepomis macrochirus (Bluegill sunfish)): 0,14 - 0,21

mg/l

Exposure time: 96 h

LC50 (Salmo gairdneri): 0,11 - 0,15 mg/l

Exposure time: 96 h

Test Type: flow-through test

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 0,0004 - 0,0013 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

EbC50 (Scenedesmus subspicatus): 4,3 mg/l

Exposure time: 72 h

GLP: yes

M-Factor (Acute aquatic tox-

icity)

1.000

Toxicity to fish (Chronic tox-

icity)

NOEC (Fish): 0,0052 mg/l

Exposure time: 21 d

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

NOEC (Crustaceans): 0,00023 mg/l

Exposure time: 21 d

M-Factor (Chronic aquatic

toxicity)

100

Toxicity to soil dwelling or-

ganisms

NOEC (Eisenia fetida (earthworms)): 3,2 mg/kg

Exposure time: 28 d

GLP: yes

Toxicity to terrestrial organ-

isms

LD50 (Apis mellifera (bees)): 1,86 µg/bee

Exposure time: 48 h Remarks: Contact

LD50 (Apis mellifera (bees)): 2,07 µg/bee

Exposure time: 48 h Remarks: Oral

LD50 (Colinus virginianus (Bobwhite quail)): 7,1 - 36,1 mg/kg

GLP: yes

LD50 (Anas platyrhynchos (Mallard duck)): 183 - 288 mg/kg

GLP: yes

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Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

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

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

EL50 (Daphnia magna (Water flea)): 1,4 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

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

Exposure time: 24 h

Method: OECD Test Guideline 201

Toxicity to daphnia and other :

aquatic invertebrates (Chron-

EL50 (Daphnia magna (Water flea)): 0,89 mg/l Exposure time: 21 d

ic toxicity)

Method: OECD Test Guideline 211

Toxicity to microorganisms LL50 (Tetrahymena pyriformis): 677,9 mg/l

Exposure time: 72 h

Test Type: Growth inhibition

Persistence and degradability

Product:

Biodegradability Result: Not readily biodegradable.

Components:

Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

Biodegradability Result: Readily biodegradable.

> Biodegradation: 58,6 % Exposure time: 28 d

Method: OECD Test Guideline 301F

Remarks: Based on data from similar materials

Bioaccumulative potential

Product:

Bioaccumulation Remarks: Bioaccumulation is unlikely.

Components:

Cadusafos Technical:

Bioaccumulation Bioconcentration factor (BCF): 220

Remarks: Does not bioaccumulate.

Partition coefficient: n-

octanol/water

log Pow: 3,9

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Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

Bioaccumulation Remarks: The product/substance has a potential to bioaccu-

mulate.

Partition coefficient: n-

octanol/water

log Pow: 3,72

Method: QSAR

Mobility in soil

Components:

Cadusafos Technical:

Distribution among environ-

mental compartments

: Remarks: Moderately mobile in soils

Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

Distribution among environ-

mental compartments

Remarks: Expected to partition to sediment and wastewater

solids. Moderately volatile.

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.

Do not re-use empty containers.

Packaging that is not properly emptied must be disposed of as

the unused product.

Empty containers should be taken to an approved waste han-

dling site for recycling or disposal.

14. TRANSPORT INFORMATION

International Regulations

UNRTDG

UN 3082 **UN** number

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, Proper shipping name

N.O.S.

(Cadusafos)

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Class : 9
Packing group : III
Labels : 9
Environmentally hazardous : no

IATA-DGR

UN/ID No. : UN 3082

Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.

(Cadusafos)

964

Class : 9 Packing group : III

Labels : Miscellaneous

Packing instruction (cargo

aircraft)

Packing instruction (passen: 964

ger aircraft)

IMDG-Code

UN number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S. (Cadusafos)

Class : 9 Packing group : III

Labels : 9 EmS Code : F-A, S-F 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

Minister of Industry Regulation No. 23/M-IND/PER/4/2013 concerning the Revision of Minister of Industry Regulation No. 87/M-IND/PER/9/2009 concerning Globally Harmonized System of Classification and Labelling of Chemicals.

Regulation of the Minister of Health No. 472 of 1996 on the Safeguarding of Substances Hazardous to Health

Hazardous substances that must be registered : Not applicable

Government Regulation No. 74 of 2001 on the Management of Hazardous and Toxic Substances

Hazardous substances approved for use : phosphoric acid

Prohibited substances : Not applicable

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Restricted substances : Not applicable

The ingredients of this product are reported in the following inventories:

TCSI : On the inventory, or in compliance with the inventory

TSCA : Product contains substance(s) not listed on TSCA inventory.

AIIC : Not in compliance with the inventory

DSL : This product contains the following components that are not

on the Canadian DSL nor NDSL.

S,S-DI-SEC-BUTYL O-ETHYL PHOSPHORODITHIOATE

ENCS : Not in compliance with the inventory

ISHL : Not in compliance with the inventory

KECI: On the inventory, or in compliance with the inventory

PICCS : Not in compliance with the inventory

IECSC : 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 : 2023/12/06

Date format : yyyy/mm/dd

Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)
ID OEL : Indonesia. Occupational Exposure Limits

ACGIH / TWA : 8-hour, time-weighted average ACGIH / STEL : Short-term exposure limit ID OEL / NAB : Long term exposure limit ID OEL / PSD : Short term exposure limit

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

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- 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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