

SAFETY DATA SHEET

APACHE® 10G



Version 1.1	Revision Date: 2024/01/30	SDS Number: 50000736	Date of last issue: 2023/05/24 Date of first issue: 2023/05/24
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1. PRODUCT AND COMPANY IDENTIFICATION

Product name : APACHE® 10G

Other means of identification : RUGBY® 10 G
CADUSAFOS 10 WT% GR

Recommended use of the chemical and restrictions on use

Recommended use : Can be used as insecticide only.

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 (Dermal) : Category 2

Skin sensitization : Category 1

Specific target organ toxicity - single exposure : Category 1 (Nervous system)

Specific target organ toxicity - repeated exposure : Category 1 (Nervous system)

Short-term (acute) aquatic : Category 1

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hazard

Long-term (chronic) aquatic hazard : Category 1

GHS label elements

Hazard pictograms :



Signal Word : Danger

Hazard Statements : H302 Harmful if swallowed.
H310 Fatal in contact with skin.
H317 May cause an allergic skin reaction.
H370 Causes damage to organs (Nervous system).
H372 Causes damage to organs (Nervous system) through prolonged or repeated exposure.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements : **Prevention:**
P260 Do not breathe dust.
P262 Do not get in eyes, on skin, or on clothing.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing.

Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.
P302 + P352 + P310 IF ON SKIN: Wash with plenty of water. Immediately call a POISON CENTER/ doctor.
P308 + P311 IF exposed or concerned: Call a POISON CENTER/ doctor.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P361 + P364 Take off immediately all contaminated clothing and wash it before reuse.
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.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Cadusafos Technical	95465-99-9	10
Cellulose	9004-34-6	>= 70 -< 95

4. FIRST AID MEASURES

- General advice : Move out of dangerous area.
Consult a physician.
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 : If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.
- In case of skin contact : Take victim immediately to hospital.
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 : Induce vomiting immediately and call a physician.
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.
- Most important symptoms and effects, both acute and delayed : Harmful if swallowed.
Fatal in contact with skin.
May cause an allergic skin reaction.
Causes damage to organs.
Causes damage to organs through prolonged or repeated exposure.
- Notes to physician : Treat symptomatically.
- This product contains a reversible cholinesterase inhibitor.
Atropine sulfate is antidotal. Support respiration as needed with removal of secretions, maintenance of a patent airway and, if necessary, artificial ventilation. If cyanosis is absent: Adults - start treatment by giving 2 mg atropine intravenously or intramuscularly, if necessary, and repeat with 0.4 - 2.0 mg

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atropine at 15 minute intervals until atropinization occurs (tachycardia, flushed skin, dry mouth, mydriasis); Children under 12 - initial dose = 0.05 mg/kg body weight and repeat dose = 0.02 - 0.05 mg/kg body weight. Start 2-PAM at the same time, following manufacturer's recommended dosages and administration. Morphine, reserpine, phenothiazines and theophylline are probably contraindicated. At first sign of pulmonary edema, the patient should be given supplemental oxygen and treated symptomatically. Observe patient to ensure that these symptoms do not recur as atropinization wears off. If in eyes, instill one drop of homatropine.

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 products | : Thermal decomposition can lead to release of toxic and irritating vapors.
Carbon oxides
phosphorus oxides
Sulfur oxides |
| Specific extinguishing methods | : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. |
| Special protective equipment for fire-fighters | : Wear self-contained breathing apparatus for firefighting if necessary. |

6. ACCIDENTAL RELEASE MEASURES

- | | |
|---|---|
| Personal precautions, protective equipment and emergency procedures | : Use personal protective equipment.
Avoid dust formation.
Avoid breathing dust. |
| Environmental precautions | : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities. |
| Methods and materials for containment and cleaning up | : Keep in suitable, closed containers for disposal. |

7. HANDLING AND STORAGE

- | | |
|---|---|
| Advice on protection against fire and explosion | : Avoid dust formation.
Provide appropriate exhaust ventilation at places where dust |
|---|---|

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is formed.

- Advice on safe handling : Avoid formation of respirable particles.
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 application area.
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 : Prevent unauthorized access.
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 storage 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
Cellulose	9004-34-6	NAB	10 mg/m3	ID OEL
		TWA	10 mg/m3	ACGIH
Phosphorodithioic acid, O-ethyl S,S-bis(1-methylpropyl) ester	95465-99-9	TWA (Inhalable fraction and vapor)	0,001 mg/m3	ACGIH

Personal protective equipment

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

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Skin and body protection	: Dust impervious protective suit Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Hygiene measures	: Avoid contact with skin, eyes and clothing. When using do not eat or drink. When using do not smoke. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: solid
Form	: granules
Color	: dark green
Odor	: ester-like
pH	: 7,1 In a 1% aqueous dispersion
Melting point/freezing point	: No data available
Boiling point/boiling range	: No data available
Flash point	: Not applicable
Flammability (solid, gas)	: Not highly flammable
Self-ignition	: No data available
Relative density	: 0,81 - 0,89
Density	: 0,75 - 0,9 g/cm3
Bulk density	: 45 - 55 kg/m3
Solubility(ies) Water solubility	: emulsifiable
Partition coefficient: n-octanol/water	: Not applicable
Viscosity Viscosity, kinematic	: Not applicable
Explosive properties	: Not explosive

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Oxidizing properties : The product is not oxidizing.

10. STABILITY AND REACTIVITY

Reactivity	: No decomposition if stored and applied as directed.
Chemical stability	: Cadusafos may decompose rapidly when heated, which can result in explosion. It is recommended not to heat. Direct heating such as electric heating or by steam must be avoided. The decomposition is to a considerable extent dependent on time as well as temperature due to self-accelerating exothermic and autocatalytic reactions. The reactions involve rearrangements and polymerisation releasing volatile malodorous and inflammable compounds such as dialkyl sulphides and alkyl mercaptans.
Possibility of hazardous reactions	: No decomposition if stored and applied as directed. Dust may form explosive mixture in air.
Conditions to avoid	: Heat, flames and sparks.
Incompatible materials	: Strong oxidizing agents Strong acids and strong bases
Hazardous decomposition products	: Carbon oxides Sulfur oxides phosphorus oxides

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Harmful if swallowed.
Fatal in contact with skin.

Product:

Acute oral toxicity	: LD50 (Rat, male): 679 mg/kg LD50 (Rat, female): 391 mg/kg
Acute inhalation toxicity	: LC50 (Rat, male and female): >0.031 ppm Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhalation toxicity
Acute dermal toxicity	: LD50 (Rabbit, male): 155 mg/kg LD50 (Rabbit, female): 143 mg/kg

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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

Cellulose:

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

Acute inhalation toxicity : LC50 (Rat): > 5,8 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity

Skin corrosion/irritation

Not classified based on available information.

Product:

Species : Rabbit
Result : No skin irritation

Remarks : May cause skin irritation and/or dermatitis.

Components:

Cadusafos Technical:

Species : Rabbit
Result : No skin irritation

Cellulose:

Species : Rabbit
Result : No skin irritation

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Serious eye damage/eye irritation

Not classified based on available information.

Product:

Species	:	Rabbit
Result	:	No eye irritation
Remarks	:	Minimal effects that do not meet the threshold for classification.

Remarks	:	Product dust may be irritating to eyes, skin and respiratory system.
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Components:

Cadusafos Technical:

Species	:	Rabbit
Result	:	No eye irritation
Method	:	Draize Test

Cellulose:

Species	:	Rabbit
Result	:	No eye irritation

Respiratory or skin sensitization

Skin sensitization

May cause an allergic skin reaction.

Respiratory sensitization

Not classified based on available information.

Product:

Species	:	Guinea pig
Result	:	May cause sensitization by skin contact.

Remarks	:	Causes sensitization.
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Components:

Cadusafos Technical:

Routes of exposure	:	Skin contact
Species	:	Guinea pig
Result	:	Not a skin sensitizer.

Cellulose:

Species	:	Guinea pig
Result	:	Not a skin sensitizer.

Germ cell mutagenicity

Not classified based on available information.

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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

Cellulose:

Germ cell mutagenicity - Assessment : In vitro tests did not show mutagenic effects, In vivo tests did not show mutagenic effects

Carcinogenicity

Not classified based on available information.

Components:**Cadusafos Technical:**

Carcinogenicity - Assessment : Animal testing did not show any carcinogenic effects.

Reproductive toxicity

Not classified based on available information.

Components:**Cadusafos Technical:**

Reproductive toxicity - Assessment : Animal testing showed no reproductive toxicity.
Animal testing showed no developmental toxicity.

STOT-single exposure

Causes damage to organs (Nervous system).

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

Causes damage to organs (Nervous system) through prolonged or repeated exposure.

Components:**Cadusafos Technical:**

Target Organs : Nervous system
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 1.

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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

Aspiration toxicity

Not classified based on available information.

Product:

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

Further information

Product:

Remarks : No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity

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

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aquatic invertebrates	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 toxicity)	: 1.000
Toxicity to fish (Chronic toxicity)	: NOEC (Fish): 0,0052 mg/l Exposure time: 21 d
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC (Crustaceans): 0,00023 mg/l Exposure time: 21 d
M-Factor (Chronic aquatic toxicity)	: 100
Toxicity to soil dwelling organisms	: NOEC (Eisenia fetida (earthworms)): 3,2 mg/kg Exposure time: 28 d GLP: yes
Toxicity to terrestrial organisms	: 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

Cellulose:

Toxicity to fish	: Remarks: No data available
Toxicity to daphnia and other aquatic invertebrates	: Remarks: No data available
Toxicity to algae/aquatic plants	: Remarks: No data available
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: Remarks: No data available
Toxicity to microorganisms	: Remarks: No data available

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Persistence and degradability

Components:

Cellulose:

Biodegradability : Remarks: No data available

Bioaccumulative potential

Components:

Cadusafos Technical:

Bioaccumulation : Bioconcentration factor (BCF): 220

Remarks: Does not bioaccumulate.

Partition coefficient: n-octanol/water : log Pow: 3,9

Cellulose:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Mobility in soil

Components:

Cadusafos Technical:

Distribution among environmental compartments : Remarks: Moderately mobile in soils

Other adverse effects

Product:

Additional ecological information : 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 chemical 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.

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14. TRANSPORT INFORMATION

International Regulations

UNRTDG

UN number	: UN 2783
Proper shipping name	: ORGANOPHOSPHORUS PESTICIDE, SOLID, TOXIC (Cadusafos)
Class	: 6.1
Packing group	: II
Labels	: 6.1
Environmentally hazardous	: yes

IATA-DGR

UN/ID No.	: UN 2783
Proper shipping name	: Organophosphorus pesticide, solid, toxic (Cadusafos)
Class	: 6.1
Packing group	: II
Labels	: Toxic
Packing instruction (cargo aircraft)	: 676
Packing instruction (passenger aircraft)	: 669
Environmentally hazardous	: yes

IMDG-Code

UN number	: UN 2783
Proper shipping name	: ORGANOPHOSPHORUS PESTICIDE, SOLID, TOXIC (Cadusafos)
Class	: 6.1
Packing group	: II
Labels	: 6.1
EmS Code	: F-A, S-A
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

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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 : 2,2' -oxybisethanol

Prohibited substances : Not applicable

Restricted substances : Not applicable

Regulation of the Ministry of Trade No. 7 of 2022 on Distribution and Control of Hazardous Materials

Type of hazardous materials subject to distribution and control, Annex I : Not applicable

Type of hazardous materials subject to distribution and control, Annex II : 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 : 2024/01/30

Date format : yyyy/mm/dd

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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
ID OEL / NAB	:	Long 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 - 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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