

SAFETY DATA SHEET



APACHE® 10G

Version	Revision Date:	SDS Number:	Date of last issue: -
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SECTION 1: Identification of the hazardous chemical and of the supplier

Product identifier

Product name : APACHE® 10G

Other means of identification : 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

Principal Supplier : FMC Corporation
2929 WALNUT ST
PHILADELPHIA PA 19104
USA
(215) 299-6000
SDS-Info@fmc.com

Local registrant : FMC Chemicals (Malaysia) Sdn Bhd
Level 16, 1 Sentral, Jalan Stesen Sentral 5, Kuala Lumpur Sentral
50470, Kuala Lumpur, Malaysia
Phone No: +60320929423
Fax No: +603-2092 9201

Emergency telephone : For leak, fire, spill or accident emergencies, call:
CHEMTREC (Asia-Pacific Regional Number): +65 3163 8374

Medical emergency:
All other countries: +1 651 / 632-6793 (Collect)
1 703 / 741-5970 (CHEMTREC - International)

SECTION 2: Hazards identification

Classification of the hazardous chemical

Acute toxicity (Oral) : Category 4

Acute toxicity (Dermal) : Category 2

Skin sensitization : Category 1

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

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

Hazardous to the aquatic environment - acute hazard : Category 1

Hazardous to the aquatic environment - chronic hazard : Category 1

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 or doctor/ physician if you feel unwell. Rinse mouth.
P302 + P350 + P310 IF ON SKIN: Gently wash with plenty of soap and water. Immediately call a POISON CENTER or doctor/ physician.
P302 + P352 IF ON SKIN: Wash with plenty of water and soap.
P307 + P311 IF exposed: Call a POISON CENTER or doctor/ physician.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P361 Remove/ Take off immediately all contaminated clothing.
P363 Wash contaminated clothing before reuse.
P391 Collect spillage.

Storage:

P405 Store locked up.

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Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification

None known.

SECTION 3: Composition and information of the ingredients of the hazardous chemical

Substance / Mixture : Mixture

Components

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

SECTION 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.

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Notes to physician : Treat symptomatically.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media : Dry chemical, CO₂, water spray or regular foam.

Unsuitable extinguishing media : High volume water jet

Physicochemical hazards arising from the chemical

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

Special protective equipment and precautions for fire-fighters

Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.

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.

Hazchem Code : 2X

SECTION 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.

SECTION 7: Handling and storage

Handling

Precautions for safe handling

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

Storage

Conditions for safe storage, including any incompatibilities

- 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.

SECTION 8: Exposure controls and personal protection

Control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Cellulose	9004-34-6	TWA	10 mg/m ³	MY PEL
		TWA	10 mg/m ³	ACGIH
Phosphorodithioic acid, O-ethyl S,S-bis(1-methylpropyl) ester	95465-99-9	TWA (Inhalable fraction and vapor)	0.001 mg/m ³	ACGIH

Individual protection measures, such as personal protective equipment

- Eye/face protection : Eye wash bottle with pure water
Tightly fitting safety goggles
- Skin protection : Dust impervious protective suit
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

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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.
Respiratory protection	: In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.
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.

SECTION 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-	: Not applicable

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octanol/water

Viscosity

Viscosity, kinematic : Not applicable

Explosive properties : Not explosive

Oxidizing properties : The product is not oxidizing.

SECTION 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

SECTION 11: Toxicological information

Information on likely routes of exposure : None known.

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

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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

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:

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Species	:	Rabbit
Result	:	No skin irritation

Cellulose:

Species	:	Rabbit
Result	:	No skin irritation

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.

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Cellulose:

Species : Guinea pig
Result : Not a skin sensitizer.

Germ cell mutagenicity

Not classified based on available information.

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.

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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.

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
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SECTION 12: Ecological information**Ecotoxicity****Components:****Cadusafos Technical:**

Toxicity to fish	: LC50 (Oncorhynchus mykiss (rainbow trout)): 0.13 mg/l Exposure time: 96 h
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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 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

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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

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.

SECTION 13: Disposal information

Disposal methods

Waste from residues : The product should not be allowed to enter drains, water courses or the soil.

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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.

SECTION 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

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.

Hazchem Code : 2X

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.

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SECTION 15: Regulatory information

Safety, health, and environmental regulations specific for the hazardous chemical

Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013.

Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations 2000.

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

SECTION 16: Other information

Revision Date	: 30.01.2024
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Full text of other abbreviations

ACGIH	: USA. ACGIH Threshold Limit Values (TLV)
MY PEL	: Malaysia. Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations 2000.

ACGIH / TWA	: 8-hour, time-weighted average
MY PEL / TWA	: Eight-hour time-weighted average airborne concentration

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 -

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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

Disclaimer

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