

SAFETY DATA SHEET

RUFAST E-FLO



Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	01.08.2022	50000688	Date of first issue: 01.08.2022

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : RUFAST E-FLO

Manufacturer or supplier's details

Company : FMC AGRICULTURAL SOLUTIONS A/S

Address : Thybornnvej 78
DK-7673 Harboore
Denmark

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

Emergency telephone number : 1 703 / 741-5970 (CHEMTREC - International)
1 703 / 527-3887 (CHEMTREC - Alternate)

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

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.

2. HAZARDS IDENTIFICATION

GHS Classification

Short-term (acute) aquatic hazard : Category 1

Long-term (chronic) aquatic hazard : Category 1

GHS label elements

Hazard pictograms :



Signal word : Warning

Hazard statements : H410 Very toxic to aquatic life with long lasting effects.

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Precautionary statements : **Prevention:**
P262 Do not get in eyes, on skin, or on clothing.
P273 Avoid release to the environment.
Response:
P391 Collect spillage.
Disposal:
P501 Dispose of contents/ container to a local hazardous waste disposal facility.

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)
diethyl phthalate	84-66-2	$\geq 20 - < 25$
Acrinathrin	101007-06-1	$\geq 2.5 - < 10$

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 : Consult a physician after significant exposure.
If unconscious, place in recovery position and seek medical advice.

In case of skin contact : Take off contaminated clothing and shoes immediately.
Wash off immediately with soap and plenty of water.
Wash clothing before reuse.
Get medical attention if irritation develops and persists.

In case of eye contact : Flush eyes with water as a precaution.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.

Most important symptoms and effects, both acute and delayed : None known.

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

Notes to physician : Treat symptomatically.

5. FIREFIGHTING MEASURES

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

Unsuitable extinguishing media : Do not spread spilled material with high-pressure water streams.

Specific hazards during fire-fighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Carbon oxides
Thermal decomposition can lead to release of irritating gases and vapours.
Nitrogen oxides (NO_x)
Fluorine compounds

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.

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 circumstances and the surrounding environment.

Special protective equipment for firefighters : Firefighters should wear protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Evacuate personnel to safe areas.
Use personal protective equipment.
If it can be safely done, stop the leak.
Do not touch or walk through the spilled material.
Ensure adequate ventilation.

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 : Never return spills in original containers for re-use.
Collect as much of the spill as possible with a suitable absorbent material.
Pick up and transfer to properly labelled containers.

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7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Advice on safe handling : Avoid formation of aerosol.
Do not breathe vapours/dust.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Provide sufficient air exchange and/or exhaust in work rooms.
Dispose of rinse water in accordance with local and national regulations.
- Conditions for safe storage : 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.
Electrical installations / working materials must comply with the technological safety standards.
- Materials to avoid : Do not store near acids.
- Recommended storage temperature : 10 - 30 °C
- Further information on storage stability : No decomposition if stored and applied as directed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
diethyl phthalate	84-66-2	TWA	5 mg/m ³	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
- Skin and body protection : Impervious clothing

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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 : General industrial hygiene practice.
Avoid contact with skin, eyes and clothing.
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

Appearance	: liquid
Colour	: milky, white
Odour	: slight, aromatic
Odour Threshold	: No data available
pH	: 4.8 (25 °C) (as an emulsion)
Melting point/range	: No data available
Boiling point/boiling range	: No data available
Flash point	: > 100 °C
Evaporation rate	: No data available
Self-ignition	: 445 °C
Upper explosion limit / Upper flammability limit	: not determined
Lower explosion limit / Lower flammability limit	: not determined
Vapour pressure	: No data available
Relative vapour density	: No data available
Relative density	: No data available
Density	: 1,068 kg/dm ³

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Solubility(ies)	
Water solubility	: No data available
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	
Viscosity, dynamic	: 534 mPa,s (25 °C)
Viscosity, kinematic	: No data available
Explosive properties	: Not explosive
Oxidizing properties	: Non-oxidizing
Molecular weight	: Not applicable
Particle size	: Not applicable

10. STABILITY AND REACTIVITY

Reactivity	: No decomposition if stored and applied as directed.
Chemical stability	: No decomposition if stored and applied as directed.
Possibility of hazardous reactions	: No decomposition if stored and applied as directed.
Conditions to avoid	: Protect from frost, heat and sunlight. Avoid extreme temperatures Avoid formation of aerosol.
Incompatible materials	: Avoid strong acids, bases, and oxidizers
Hazardous decomposition products	: No decomposition if stored and applied as directed.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity	: LD50(Rat, female): > 2,000 mg/kg Method: OECD Test Guideline 423 Assessment: The component/mixture is minimally toxic after single ingestion.
Acute inhalation toxicity	: LC50(Rat, male and female): > 4.84 mg/l

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Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
Assessment: The component/mixture is moderately toxic after short term inhalation.
Remarks: Evident toxicity

Acute dermal toxicity : LD50(Rat, male and female): > 4,000 mg/kg
Method: OECD Test Guideline 402
Assessment: The component/mixture is minimally toxic after single contact with skin.

Components:

diethyl phthalate:

Acute oral toxicity : LD50 (Rat, male and female): > 5,591 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 4.63 mg/l
Exposure time: 6 h
Test atmosphere: dust/mist
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rat, male and female): > 11,181 mg/kg

Acrinathrin:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): 1.6 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rat): > 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
Assessment : No skin irritation
Method : OECD Test Guideline 404
Result : No skin irritation

Components:

diethyl phthalate:

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

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Species	: Rabbit
Method	: OECD Test Guideline 404
Result	: No skin irritation

Serious eye damage/eye irritation

Not classified based on available information.

Product:

Species	: Rabbit
Assessment	: No eye irritation
Method	: OECD Test Guideline 405
Result	: No eye irritation

Components:

diethyl phthalate:

Species	: Rabbit
Result	: No eye irritation

Acrinathrin:

Species	: Rabbit
Method	: OECD Test Guideline 405
Result	: No eye irritation

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

diethyl phthalate:

Test Type	: Buehler Test
Species	: Guinea pig
Result	: Does not cause skin sensitisation.

Acrinathrin:

Test Type	: Maximisation Test
Species	: Guinea pig
Result	: Does not cause skin sensitisation.

Germ cell mutagenicity

Not classified based on available information.

Product:

Germ cell mutagenicity -	: Weight of evidence does not support classification as a germ
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Assessment cell mutagen.

Components:

diethyl phthalate:

Genotoxicity in vitro : Test Type: Mouse lymphoma assay
Test system: mouse lymphoma cells
Method: OECD Test Guideline 476
Result: negative

Test Type: Chromosome aberration test in vitro
Test system: Human lymphocytes
Method: OECD Test Guideline 473
Result: negative

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

Germ cell mutagenicity - Assessment : Weight of evidence does not support classification as a germ cell mutagen.

Acrinathrin:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro
Test system: Chinese hamster ovary cells
Metabolic activation: Metabolic activation
Result: positive

Genotoxicity in vivo : Test Type: chromosome aberration assay
Result: negative

Germ cell mutagenicity - Assessment : Weight of evidence does not support classification as a germ cell mutagen.

Carcinogenicity

Not classified based on available information.

Product:

Carcinogenicity - Assessment : Weight of evidence does not support classification as a carcinogen

Components:

diethyl phthalate:

Species : Rat, male
Application Route : Dermal
Exposure time : 103 weeks
Dose : 320, 1015 mg/kg/d
: >= 1,015 mg/kg bw/day
Result : negative

Species : Rat, female
Application Route : Dermal

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Exposure time	:	103 weeks
Dose	:	520, 1015 mg/kg/d
	:	>= 1,015 mg/kg bw/day
Result	:	negative
Carcinogenicity - Assessment	:	Weight of evidence does not support classification as a carcinogen

Acrinathrin:

Species	:	Rat, female
Method	:	OECD Test Guideline 453
Result	:	positive

Species	:	Mouse
Method	:	OECD Test Guideline 451
Result	:	negative

Species	:	Rat
Method	:	OECD Test Guideline 453
Result	:	negative

Carcinogenicity - Assessment	:	Weight of evidence does not support classification as a carcinogen
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Reproductive toxicity

Not classified based on available information.

Product:

Reproductive toxicity - Assessment	:	Weight of evidence does not support classification for reproductive toxicity
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Components:

diethyl phthalate:

Effects on fertility	:	Test Type: Two-generation study Species: Rat, male and female Application Route: Oral Dose: 0, 600, 3000, 15000 parts per million General Toxicity - Parent: NOAEL: 15,000 General Toxicity F1: NOAEL: 3,000 Method: OECD Test Guideline 416 Result: negative
Effects on foetal development	:	Test Type: Developmental Toxicity Screening Test Species: Rat Application Route: Oral Dose: 0, 0.25, 2.5 & 5.0% General Toxicity Maternal: NOAEL: 0.25 Developmental Toxicity: NOAEL: 2.5 Result: Embryotoxic effects and adverse effects on the offspring were detected only at high maternally toxic doses

Acrinathrin:

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Reproductive toxicity - Assessment : No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

STOT - single exposure

Not classified based on available information.

Components:

Acrinathrin:

Remarks : No significant adverse effects were reported

STOT - repeated exposure

Not classified based on available information.

Components:

diethyl phthalate:

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Repeated dose toxicity

Components:

diethyl phthalate:

Species	: Rat, male and female
NOAEL	: 150 mg/kg
Application Route	: Oral
Exposure time	: 2 - 16 w
Dose	: 0, 150, 750, 3160mg/kg

Acrinathrin:

Species	: Rat
LOEL	: 9 mg/kg
Application Route	: Oral
Exposure time	: 90 day
Target Organs	: Skin, Nervous system

Aspiration toxicity

Not classified based on available information.

Product:

No aspiration toxicity classification

Components:

Acrinathrin:

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

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Experience with human exposure

Components:

diethyl phthalate:

General Information : Symptoms: male reproductive effects, central nervous system effects

Skin contact : Symptoms: Dermatitis, sensitising effects

Further information

Product:

Remarks : No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 1.7 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 3.7 µg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (Scenedesmus subspicatus): > 1,000 mg/l

Toxicity to terrestrial organisms : LC50: 2 - 12 µg/bee
Exposure time: 48 h
End point: Acute oral toxicity
Species: Apis mellifera (bees)
Remarks: Oral

LC50: 2 µg/bee
Exposure time: 48 h
End point: Acute contact toxicity
Species: Apis mellifera (bees)
Remarks: Contact

Components:

diethyl phthalate:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 12 mg/l
Exposure time: 96 h
Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia (water flea)): 90 mg/l
Exposure time: 48 h
Test Type: static test

Toxicity to algae/aquatic : EC10 (Desmodesmus subspicatus (green algae)): 9 mg/l

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plants	Exposure time: 72 h Test Type: static test EC50 (Desmodesmus subspicatus (green algae)): 45 mg/l Exposure time: 72 h Test Type: static test
Toxicity to microorganisms	: EC20 (activated sludge): 400 mg/l Exposure time: 0.5 h Test Type: Respiration inhibition Method: ISO 8192
Toxicity to fish (Chronic toxicity)	: NOEC: 5 mg/l Exposure time: 28 d Species: Cyprinus carpio (Carp) Test Type: semi-static test
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC: 25 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Test Type: flow-through test
Toxicity to soil dwelling organisms	: LC50: 0.85 mg/cm2 Exposure time: 48 d Species: Eisenia fetida (earthworms) Method: OECD Test Guideline 207

Acrinathrin:

Toxicity to fish	: LC50 (Oncorhynchus mykiss (rainbow trout)): 0.0061 mg/l Exposure time: 96 h LC50 (Pimephales promelas (fathead minnow)): 0.002 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 0.000022 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	: IC50 (Scenedesmus subspicatus): > 100 mg/l Exposure time: 72 h
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC: 0.0063 Exposure time: 21 d Species: Daphnia magna (Water flea)
Toxicity to soil dwelling organisms	: LC50: > 186 mg/kg Exposure time: 14 d Species: Eisenia fetida (earthworms)
Toxicity to terrestrial organisms	: LD50: 0.08 µg/bee End point: Acute contact toxicity Species: Apis mellifera (bees)

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Persistence and degradability**Product:**

Biodegradability : Result: Not readily biodegradable.
Remarks: It undergoes degradation in the environment and in waste water treatment plants.

Components:**diethyl phthalate:**

Biodegradability : Inoculum: activated sludge, adapted
Result: Readily biodegradable.
Biodegradation: 94.6 %
Exposure time: 28 d

Acrinathrin:

Biodegradability : Result: Not readily biodegradable.

Stability in water : Degradation half life: 1 d

Bioaccumulative potential**Components:****diethyl phthalate:**

Bioaccumulation : Bioconcentration factor (BCF): 13.1
Method: QSAR

Partition coefficient: n-octanol/water : log Pow: 2.2 (40 °C)
pH: 7.5

Acrinathrin:

Bioaccumulation : Species: Cyprinus carpio (Carp)
Bioconcentration factor (BCF): 538
Remarks: Bioaccumulation is unlikely.
See section 9 for octanol-water partition coefficient.

Partition coefficient: n-octanol/water : log Pow: 5.24 (25 °C)

Mobility in soil**Components:****Acrinathrin:**

Distribution among environmental compartments : Remarks: immobile

Other adverse effects**Product:**

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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.
Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

International Regulations

UNRTDG

UN number : UN 3082
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Acrinathrin)
Class : 9
Packing group : III
Labels : 9

IATA-DGR

UN/ID No. : UN 3082
Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.
(Acrinathrin)
Class : 9
Packing group : III
Labels : Miscellaneous
Packing instruction (cargo aircraft) : 964
Packing instruction (passenger aircraft) : 964
Environmentally hazardous : yes

IMDG-Code

UN number : UN 3082
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Acrinathrin)
Class : 9
Packing group : III
Labels : 9

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EmS Code : F-A, S-F
Marine pollutant : yes

Transport in bulk according to IMO instruments

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

The components 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)-A-CYANO-3-PHENOXYBENZYL (1R,3S)-2,2-DIMETHYL-3-[(Z)-2-{[2,2,2-TRIFLUORO-1-(TRIFLUOROMETHYL)ETHOXY]CARBONYL}VINYL]CYCLOPROPANECARBOXYLATE Poly(oxy-1,2-ethanediyl), .alpha.-[2,4,6-tris(1-phenylethyl)phenyl]-.omega.-hydroxy-, phosphate, potassium salt Smectite-group minerals
ENCS	: Not in compliance with the inventory
ISHL	: Not in compliance with the inventory
KECI	: Not in compliance with the inventory
PICCS	: Not in compliance with the inventory
IECSC	: Not in compliance with the inventory
NZIoC	: Not in compliance with the inventory
TECI	: Not in compliance with the inventory

16. OTHER INFORMATION

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Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

ACGIH / TWA : 8-hour, time-weighted average

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

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