# **BRAVIS 40 SC**



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#### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : BRAVIS 40 SC

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 : 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 fungicide only.

Restrictions on use : Use as recommended by the label.

## 2. HAZARDS IDENTIFICATION

**GHS Classification** 

Acute toxicity (Oral) : Category 5

Acute toxicity (Dermal) : Category 5

Short-term (acute) aquatic

hazard

Category 3

Long-term (chronic) aquatic

hazard

Category 2

**GHS** label elements

Hazard pictograms

\*\*\*

Signal Word : Warning

Hazard Statements : H303 + H313 May be harmful if swallowed or in contact with

skin.

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H402 Harmful to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements : Prevention:

P273 Avoid release to the environment.

Response:

P301 + P317 IF SWALLOWED: Get medical help.

P302 + P352 + P317 IF ON SKIN: Wash with plenty of water.

Get medical help. P391 Collect spillage.

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)
dimethomorph (ISO)	110488-70-5	>= 25 - < 30
Fluopimomide TC	1309859-39-9	>= 10 - < 20
alpha-Hexadecyl-omega- hydroxypoly(oxyethylene)	9004-95-9	>= 1 - < 2.5
2-methylisothiazol-3(2H)-one	2682-20-4	>= 0.1 - < 0.25

## 4. FIRST AID MEASURES

General advice : Move out of dangerous area.

Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

If inhaled : If unconscious, place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

In case of skin contact : Wash off with soap and plenty of water.

Call a physician if irritation develops or 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.

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Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

Most important symptoms and effects, both acute and

delayed

: May be harmful if swallowed or in contact with skin.

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 toxic and irritat-

ing vapors.
Carbon oxides

Specific extinguishing meth-

ods

Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Special protective equipment

for fire-fighters

Firefighters should wear protective clothing and self-contained

breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- :

tive equipment and emer-

gency procedures

Use personal protective equipment.

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

: Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Advice on protection against

fire and explosion

Normal measures for preventive fire protection.

Advice on safe handling : For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the ap-

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plication area.

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.

Further information on stor-

age stability

No decomposition if stored and applied as directed.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

Personal protective equipment

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

sonal respiratory protection and protective suit.

Hand protection

Material : Wear chemical resistant gloves, such as barrier laminate,

butyl rubber or nitrile rubber.

Remarks : The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water

Tightly fitting safety goggles

Skin and body protection : Impervious clothing

Choose body protection according to the amount and concen-

tration of the dangerous substance at the work place.

Hygiene measures : Wash hands before breaks and at the end of workday.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : liquid

Form : suspension

pH : 6-9

Melting point/freezing point : No data available

Boiling point/boiling range : No data available

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Flash point : No data available

Flammability (solid, gas) : Not applicable

Self-ignition : No data available

Solubility(ies)

Water solubility : dispersible

Partition coefficient: n-

octanol/water

Not applicable

Viscosity

Viscosity, kinematic : No data available

Explosive properties : Not explosive

Oxidizing properties : Non-oxidizing

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 reac-

tions

No decomposition if stored and applied as directed.

Conditions to avoid : Protect from frost, heat and sunlight.

Incompatible materials : Strong oxidizing agents

Strong acids and strong bases

Hazardous decomposition

products

Stable under recommended storage conditions.

## 11. TOXICOLOGICAL INFORMATION

#### **Acute toxicity**

May be harmful if swallowed or in contact with skin.

**Product:** 

Acute oral toxicity : LD50(Rat): > 2,000 mg/kg

Acute inhalation toxicity : LC50(Rat, male and female): > 2.62 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: The substance or mixture has no acute inhala-

tion toxicity

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Acute dermal toxicity : LD50(Rat): > 2,000 mg/kg

**Components:** 

dimethomorph (ISO):

Acute oral toxicity : LD50: 3,500 mg/kg

Acute dermal toxicity : LD50: > 2,000 mg/kg

Fluopimomide TC:

Acute oral toxicity : LD50 (Rat): 2,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 2.147 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg

alpha-Hexadecyl-omega-hydroxypoly(oxyethylene):

Acute oral toxicity : LD50 (Rat, male and female): > 10,000 mg/kg

Method: OECD Test Guideline 401

Acute inhalation toxicity : LC0 (Rat, male and female): > 1.6 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist Method: OECD Test Guideline 403

Remarks: Highest attainable concentration.

no mortality

Acute dermal toxicity : LD50 (Rabbit, male and female): > 2,000 mg/kg

Method: OECD Test Guideline 402

2-methylisothiazol-3(2H)-one:

Acute oral toxicity : LD50 (Rat, male): 232 - 249 mg/kg

Method: OPPTS 870.1100

LD50 (Rat, female): 120 mg/kg Method: OPPTS 870.1100

Acute inhalation toxicity : LC50 (Rat, male and female): 0.11 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rat, male and female): 242 mg/kg

Method: OECD Test Guideline 402

Skin corrosion/irritation

Not classified based on available information.

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**Product:** 

Result : No skin irritation

**Components:** 

Fluopimomide TC:

Species : Rabbit

Result : No skin irritation

alpha-Hexadecyl-omega-hydroxypoly(oxyethylene):

Species : Rabbit Exposure time : 4 h

Method : OECD Test Guideline 404

Result : Mild skin irritation

2-methylisothiazol-3(2H)-one:

Species : Rabbit Exposure time : 4 h

Method : OECD Test Guideline 404

Result : Corrosive after 4 hours or less of exposure

Serious eye damage/eye irritation

Not classified based on available information.

**Product:** 

Result : No eye irritation

**Components:** 

Fluopimomide TC:

Species : Rabbit

Result : No eye irritation

alpha-Hexadecyl-omega-hydroxypoly(oxyethylene):

Species : Rabbit Exposure time : 72 h

Method : OECD Test Guideline 405

Result : No eye irritation

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

**Product:** 

Species : Guinea pig

Result : Not a skin sensitizer.

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#### **Components:**

Fluopimomide TC:

Species : Guinea pig
Result : Slightly sensitising

alpha-Hexadecyl-omega-hydroxypoly(oxyethylene):

Test Type : Buehler Test
Routes of exposure : Dermal
Species : Guinea pig

Method : OECD Test Guideline 406

Result : Does not cause skin sensitization.

2-methylisothiazol-3(2H)-one:

Test Type : Buehler Test
Routes of exposure : Skin contact
Species : Guinea pig
Method : Buehler Test

Result : Causes skin sensitization.

Test Type : Local lymph node assay (LLNA)

Routes of exposure : Skin contact Species : Mouse

Result : Causes skin sensitization.

Routes of exposure : Skin contact Species : Guinea pig

Method : OECD Test Guideline 406
Result : Causes skin sensitization.

## Germ cell mutagenicity

Not classified based on available information.

## **Components:**

dimethomorph (ISO):

Genotoxicity in vivo : Application Route: Oral

Result: positive

## alpha-Hexadecyl-omega-hydroxypoly(oxyethylene):

Genotoxicity in vitro : Test Type: reverse mutation assay

Test system: TA100

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Test Type: Chromosome aberration test in vitro Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative

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Test Type: gene mutation test

Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

## 2-methylisothiazol-3(2H)-one:

Genotoxicity in vitro : Test Type: reverse mutation assay

Method: Mutagenicity (Salmonella typhimurium - reverse mu-

tation assay) Result: negative

Test Type: Chromosome aberration test in vitro Test system: Chinese hamster ovary cells

Method: OECD Test Guideline 473

Result: equivocal

Test Type: gene mutation test

Test system: Chinese hamster ovary 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

Genotoxicity in vivo : Test Type: unscheduled DNA synthesis assay

Species: Rat (male) Application Route: Oral

Method: OECD Test Guideline 486

Result: negative

Test Type: Micronucleus test Species: Mouse (male and female)

Application Route: Oral

Method: OECD Test Guideline 474

Result: negative

## Carcinogenicity

Not classified based on available information.

# Reproductive toxicity

Not classified based on available information.

# Components:

## alpha-Hexadecyl-omega-hydroxypoly(oxyethylene):

Effects on fertility : Test Type: Two-generation study

Species: Rat, male and female Method: OECD Test Guideline 416

Result: negative

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## STOT-single exposure

Not classified based on available information.

## STOT-repeated exposure

Not classified based on available information.

## Repeated dose toxicity

#### Components:

## alpha-Hexadecyl-omega-hydroxypoly(oxyethylene):

Species : Rat, male and female

NOAEL : >= 500 mg/kg
Application Route : Ingestion

Method : OECD Test Guideline 408

## **Aspiration toxicity**

Not classified based on available information.

#### **Further information**

**Product:** 

Remarks : No data available

## 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

### **Product:**

Toxicity to fish : LC50 (Zebra fish): 17.6438 mg/l

Exposure time: 96 h

Toxicity to soil dwelling or-

ganisms

LC50: > 1,000 mg/kg Exposure time: 14 d

Species: worms

Toxicity to terrestrial organ-

isms

LD50: > 2,000 mg/kg

End point: Acute oral toxicity

Species: Coturnix japonica (Japanese quail)

LD50: > 100 μg/bee Exposure time: 48 h

End point: Acute oral toxicity Species: Apis mellifera (bees)

LD50: 8.3374 µg/bee Exposure time: 48 h

End point: Acute contact toxicity Species: Apis mellifera (bees)

# **Components:**

## dimethomorph (ISO):

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Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 3 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Crustaceans): 48.87 mg/l

Exposure time: 48 h

Toxicity to microorganisms : IC50: > 50 mg/l

Exposure time: 6 h

Fluopimomide TC:

Toxicity to fish : LC50 (Zebra fish): 25.6 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia): 3.06 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

EC50 ( algae): 1.4 mg/l

Exposure time: 72 h

Toxicity to soil dwelling or-

ganisms

LC50: > 100 mg/kg Exposure time: 14 d

Species: worms

Toxicity to terrestrial organ-

isms

LC50: > 2,000 mg/kg

Exposure time: 48 h

End point: Acute oral toxicity Species: Apis mellifera (bees)

LD50: > 100 μg/bee Exposure time: 48 h

End point: Acute contact toxicity Species: Apis mellifera (bees)

LD50: > 1,000 mg/kg

End point: Acute oral toxicity

Species: Colinus virginianus (Bobwhite quail)

alpha-Hexadecyl-omega-hydroxypoly(oxyethylene):

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 108 mg/l

Exposure time: 96 h Test Type: semi-static test

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

EL50 (Daphnia magna (Water flea)): 51 mg/l

Exposure time: 48 h Test Type: static test

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

EC50 ( Desmodesmus subspicatus (green algae)): > 100 mg/l

Exposure time: 72 h
Test Type: static test

Method: EU Method C3

Toxicity to microorganisms : EC50 (activated sludge): > 1,000 mg/l

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Exposure time: 3 h

Test Type: Respiration inhibition Method: OECD Test Guideline 209

Toxicity to fish (Chronic tox-

icity)

NOEC: 0.11 - 0.28 mg/l Exposure time: 30 d

Species: Pimephales promelas (fathead minnow)

Method: QSAR

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

EC20: 0.088 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea)

Test Type: flow-through test

Method: QSAR

2-methylisothiazol-3(2H)-one:

Toxicity to fish LC50 (Oncorhynchus mykiss (rainbow trout)): 4.77 mg/l

Exposure time: 96 h

Test Type: flow-through test

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

LC50 (Daphnia magna (Water flea)): 0.934 mg/l

Exposure time: 48 h

Test Type: flow-through test Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

EC50 (Pseudokirchneriella subcapitata (green algae)): 0.138

mg/l

Exposure time: 120 h Test Type: static test

Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (green algae)): 0.050

mg/l

Exposure time: 120 h Test Type: static test

Method: OECD Test Guideline 201

Toxicity to microorganisms EC50 (activated sludge): 41 mg/l

Exposure time: 3 h

Method: OECD Test Guideline 209

Toxicity to fish (Chronic tox-

icity)

NOEC: 2.38 mg/l

Exposure time: 98 d

Species: Oncorhynchus mykiss (rainbow trout)

Method: OECD Test Guideline 210

LOEC: 4.93 mg/l Exposure time: 98 d

Species: Oncorhynchus mykiss (rainbow trout)

Method: OECD Test Guideline 210

Toxicity to daphnia and other :

NOEC: 0.044 mg/l aquatic invertebrates (Chron-Exposure time: 21 d

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ic toxicity) Species: Daphnia magna (Water flea)

Test Type: flow-through test Method: OECD Test Guideline 211

LOEC: 0.089 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea)

Test Type: flow-through test Method: OECD Test Guideline 211

M-Factor (Chronic aquatic

toxicity)

: 1

Persistence and degradability

**Components:** 

dimethomorph (ISO):

Biodegradability : Result: Not readily biodegradable.

Biodegradation: 0 % Exposure time: 28 d

alpha-Hexadecyl-omega-hydroxypoly(oxyethylene):

Biodegradability : Inoculum: activated sludge, non-adapted

Concentration: 100 mg/l Result: Readily biodegradable.

Biodegradation: 87 % Exposure time: 28 d

Method: OECD Test Guideline 301F

Remarks: Readily biodegradable, according to appropriate

OECD test.

2-methylisothiazol-3(2H)-one:

Biodegradability : Biodegradation: 50 %

Exposure time: 29 d

**Bioaccumulative potential** 

**Components:** 

dimethomorph (ISO):

Partition coefficient: n-

: log Pow: 2.3 (20 °C)

octanol/water

alpha-Hexadecyl-omega-hydroxypoly(oxyethylene):

Bioaccumulation : Species: Pimephales promelas (fathead minnow)

Exposure time: 24 h

Bioconcentration factor (BCF): 387.5

Partition coefficient: n-

octanol/water

log Pow: 6.67 (20 °C)

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2-methylisothiazol-3(2H)-one:

Bioaccumulation : Exposure time: 5 d

Bioconcentration factor (BCF): 48.1

Partition coefficient: n-

octanol/water

log Pow: -0.486 (20 °C)

Mobility in soil

No data available

Other adverse effects

**Product:** 

Additional ecological infor-

mation

An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Harmful to aquatic life.

Toxic to aquatic life with long lasting effects.

#### 13. DISPOSAL CONSIDERATIONS

**Disposal methods** 

Waste from residues : The product should not be allowed to enter drains, water

courses or the soil.

Do not contaminate ponds, waterways or ditches with chemi-

cal or used container.

Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product. Do not re-use empty containers.

### 14. TRANSPORT INFORMATION

## International Regulations

**UNRTDG** 

UN number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(dimethomorph, Fluopimomide)

Class : 9
Packing group : III
Labels : 9

**IATA-DGR** 

UN/ID No. : UN 3082

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

(dimethomorph, Fluopimomide)

Class : 9 Packing group : III

Labels : Miscellaneous

Packing instruction (cargo : 964

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aircraft)

Packing instruction (passen: 964

ger aircraft)

Environmentally hazardous : yes

**IMDG-Code** 

UN number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(dimethomorph, Fluopimomide)

Class : 9
Packing group : III
Labels : 9
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 ingredients of this product are reported in the following inventories:

TCSI : Not in compliance with the inventory

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

AIIC : Not in compliance with the inventory

DSL : This product contains the following components that are not

on the Canadian DSL nor NDSL.

dimethomorph (ISO) Fluopimomide TC

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

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TECI: Not in compliance with the inventory

#### 16. OTHER INFORMATION

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#### Full text of other abbreviations

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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