

SAFETY DATA SHEET



AVAUNT EC

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	28.01.2025	50000122	Date of first issue: 28.01.2025

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product name : AVAUNT EC

Manufacturer or supplier's details

Company : FMC International Switzerland Sàrl

Address : Chemin de Blandonnet 8
1214 Vernier
Switzerland

Telephone : +41 22 518 89 61

Emergency telephone number : +44 20 3885 0382 (CHEMTREC's European Regional Toll-Free Number)
1 703 / 741-5970 (CHEMTREC - International)
1 703 / 527-3887 (CHEMTREC - Alternate)

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

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

Recommended use of the chemical and restrictions on use

Recommended use : Insecticide

Restrictions on use : Use as recommended by the label.

2. HAZARDS IDENTIFICATION

GHS Classification

Flammable liquids : Category 4

Acute toxicity (Oral) : Category 4

Skin irritation : Category 2

Specific target organ toxicity - single exposure : Category 2 (Central nervous system)

Specific target organ toxicity - repeated exposure : Category 1

Short-term (acute) aquatic hazard : Category 2

Long-term (chronic) aquatic hazard : Category 2




GHS-Labeling

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Hazard pictograms :   

Signal word : Danger

Hazard statements : H227 Combustible liquid.
H302 Harmful if swallowed.
H315 Causes skin irritation.
H371 May cause damage to organs (Central nervous system).
H372 Causes damage to organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**
P210 Keep away from heat/ sparks/ open flames/ hot surfaces.
No smoking.
P260 Do not breathe mist or vapours.
P264 Wash skin thoroughly after handling.
P273 Avoid release to the environment.
Response:
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P391 Collect spillage.

Other hazards which do not result in classification

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture : Mixture

Components

Chemical name	CAS-No.	Classification	MAC value mg/m ³ / TSEL value	Concentration (% w/w)
Fatty acids, C8-10, Me esters	85566-26-3	Flam. Liq.4; H227 Skin Irrit.3; H316 Aquatic Acute2; H401No data available	No data available	>= 50 - < 70
indoxacarb (ISO)	173584-44-6	Acute Tox.3; H301 Acute Tox.4; H332 Skin Sens.1; H317	No data available	>= 10 - < 20

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		STOT SE2; H371 (Central nervous system) STOT RE1; H372 (Blood, Nervous system) Aquatic Acute1; H400 Aquatic Chronic1; H410No data available		
Fatty acids, soya, Me esters	68919-53-9	Acute Tox.5; H303 Acute Tox.4; H312 Eye Irrit.2B; H320No data available	No data available	>= 1 - < 10
calcium dodecylbenzenesulphonate	26264-06-2	Acute Tox.4; H302 Skin Irrit.2; H315 Eye Dam.1; H318 Aquatic Acute2; H401No data available	No data available	>= 3 - < 10
2-ethylhexan-1-ol	104-76-7	Flam. Liq.4; H227 Acute Tox.5; H303 Acute Tox.4; H332 Skin Irrit.2; H315 Eye Irrit.2A; H319 STOT SE3; H335 (Respiratory system) Aquatic Acute3; H402No data available	MPC-STEL: 10 mg/m ³ Class 3 - Moderately dangerous, Substances which require special skin and eye protection Data Source: RU OEL	>= 1 - < 2,5

For explanation of abbreviations see section 16.

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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 | : Move to fresh air.
If unconscious, place in recovery position and seek medical advice.
If experiencing any discomfort, immediately remove from exposure. Light cases: Keep person under surveillance. Get medical attention immediately if symptoms develop. Serious cases: Get medical attention immediately or call for an ambulance. |
| In case of skin contact | : Take off all contaminated clothing immediately.
Wash off with soap and water.
Get medical attention immediately if irritation develops and persists.
Wash contaminated clothing before re-use. |
| 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 | : Do NOT induce vomiting.
Keep respiratory tract clear.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
Take victim immediately to hospital. |
| Most important symptoms and effects, both acute and delayed | : Exposure may result in loss of coordination and tremors.
Harmful if swallowed.
Causes skin irritation.
May cause damage to organs.
Causes damage to organs through prolonged or repeated exposure. |
| Protection of first-aiders | : First Aid responders should pay attention to self-protection and use the recommended protective clothing
Avoid inhalation, ingestion and contact with skin and eyes.
If potential for exposure exists refer to Section 8 for specific personal protective equipment. |
| Notes to physician | : Treat symptomatically.
Immediate medical attention is required in case of ingestion. |

5. FIREFIGHTING MEASURES

- | | |
|------------------------------|---|
| Suitable extinguishing media | : Dry chemical, CO ₂ , water spray or regular foam.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
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|---|--|
| Unsuitable extinguishing media | : Do not spread spilled material with high-pressure water streams.
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 | : Fire may produce irritating, corrosive and/or toxic gases.
Chlorinated compounds
Fluorinated compounds
Nitrogen oxides (NOx)
Carbon oxides
Hydrogen cyanide
Sulphur oxides |
| Specific extinguishing methods | : Remove undamaged containers from fire area if it is safe to do so.
Use a water spray to cool fully closed containers.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
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 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.
Do not touch or walk through the spilled material.
If it can be safely done, stop the leak.
Use personal protective equipment.
Never return spills in original containers for re-use.
Mark the contaminated area with signs and prevent access to unauthorized personnel.
Only qualified personnel equipped with suitable protective equipment may intervene.
For disposal considerations see section 13. |
| 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.
Keep in suitable, closed containers for disposal. |

7. HANDLING AND STORAGE

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- Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material. Keep away from open flames, hot surfaces and sources of ignition.
- Advice on safe handling : Avoid formation of aerosol.
Do not breathe vapours/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.
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 tightly closed in a dry, cool and well-ventilated place.
Observe label precautions.
Keep container closed when not in use.
Keep locked up or in an area accessible only to qualified or authorised persons.
Keep in properly labelled containers.
No smoking.
Electrical installations / working materials must comply with the technological safety standards.
- Further information on storage conditions : The product is stable under normal conditions of warehouse storage.
Protect from frost and extreme heat.
Store in closed, labelled containers. The storage room should be constructed of incombustible material, closed, dry, ventilated and with impermeable floor, without access of unauthorised persons or children. A warning sign reading "POISON" is recommended. The room should only be used for storage of chemicals. Food, drink, feed and seed should not be present. A hand wash station should be available.
- Recommended storage temperature : > 0 °C
- Further information on storage stability : Do not freeze.

No decomposition if stored and applied as directed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Personal protective equipment

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

Hand protection

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Material	: Wear chemical resistant gloves, such as barrier laminate, butyl rubber or nitrile rubber.
Remarks	: The suitability for a specific workplace should be discussed with the producers of the protective gloves.
Eye protection	: Eye wash bottle with pure water Tightly fitting safety goggles Wear face-shield and protective suit for abnormal processing problems.
Skin and body protection	: Impervious clothing Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Protective measures	: Plan first aid action before beginning work with this product. Always have on hand a first-aid kit, together with proper instructions. Wear suitable protective equipment. When using do not eat, drink or smoke. In the context of professional plant protection use as recommended, the end user must refer to the label and the instructions for use.
Hygiene measures	: 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

Physical state	: liquid
Colour	: amber
Odour	: faint burn smell
Odour Threshold	: No data available
pH	: 6,6 (20 - 25 °C) Concentration: 10 g/l 1 %
Melting point/ range	: No data available
Boiling point/boiling range	: No data available
Flash point	: 69 °C

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Evaporation rate	:	No data available
Flammability (liquids)	:	Not highly flammable, ignitable
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	No data available
Solubility(ies)		
Water solubility	:	No data available
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Auto-ignition temperature	:	255 °C
Decomposition temperature	:	Hazardous decomposition products formed under fire conditions.
Viscosity		
Viscosity, dynamic	:	5,6 mPa.s (25 °C)
Viscosity, kinematic	:	No data available
Explosive properties	:	Not explosive
Oxidizing properties	:	Non-oxidizing
Molecular weight	:	Not applicable
Particle size	:	No data available

10. STABILITY AND REACTIVITY

Reactivity	:	No decomposition if stored and applied as directed.
Chemical stability	:	No decomposition if stored and applied as directed.

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Possibility of hazardous reactions	: No decomposition if stored and applied as directed. Vapours may form explosive mixture with air.
Conditions to avoid	: Heat, flames and sparks. Heating of the product will produce harmful and irritant vapours.
Incompatible materials	: Strong oxidizing agents Strong acids and strong bases
Hazardous decomposition products	: Stable under recommended storage conditions.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure	: Inhalation Skin contact
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Acute toxicity

Harmful if swallowed.
May be harmful if inhaled.

Harmful if swallowed.

Product:

Acute oral toxicity	: LD50 (Rat, female): 977 mg/kg Method: OECD Test Guideline 425 Assessment: The component/mixture is moderately toxic after single ingestion.
Acute inhalation toxicity	: LC50 (Rat): > 5,2 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 GLP: yes Assessment: The substance or mixture has no acute inhalation toxicity
Acute dermal toxicity	: LD50 (Rat): > 5.000 mg/kg Method: OECD Test Guideline 402 Symptoms: Irritation, Reduced body weight GLP: yes Assessment: The substance or mixture has no acute dermal toxicity Remarks: no mortality

Components:

Fatty acids, C8-10, Me esters:

Acute oral toxicity	: LD50 (Rat, male and female): > 2.000 mg/kg Method: EC Directive 92/69/EEC B.1 Acute Toxicity (Oral) Assessment: The substance or mixture has no acute oral toxicity
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Remarks: no mortality
Based on data from similar materials

Acute inhalation toxicity : LC50 (Rat, male and female): > 5 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 436
Assessment: The substance or mixture has no acute inhalation toxicity
Remarks: no mortality
Based on data from similar materials

indoxacarb (ISO):

Acute oral toxicity : LD50 (Rat, male and female): 281 - 291 mg/kg
Method: OECD Test Guideline 420
Symptoms: ataxia, Tremors, Diarrhoea, clonic convulsions
GLP: yes

LD50 (Rat, female): 179 mg/kg
Method: OECD Test Guideline 401
Target Organs: Nervous system
Symptoms: hypoactivity, Tremors, ataxia, Fatality
GLP: yes

Acute inhalation toxicity : LC50 (Rat, female): 4,2 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
Symptoms: nasal discharge, lethargy
GLP: yes

Acute dermal toxicity : LD50 (Rat): > 5.000 mg/kg
Method: OECD Test Guideline 402
GLP: yes
Assessment: The substance or mixture has no acute dermal toxicity

Fatty acids, soya, Me esters:

Acute oral toxicity : LD50 (Rat): 5.000 - 15.000 mg/kg

Acute dermal toxicity : LD50 (Rabbit): 2.000 - 20.000 mg/kg

calcium dodecylbenzenesulphonate:

Acute oral toxicity : LD50 (Rat, male and female): 1.300 mg/kg
Remarks: Based on data from similar materials

Acute inhalation toxicity : Remarks: Not classified

Acute dermal toxicity : LD50 (Rat, male and female): > 2000 milligram per kilogram
Method: OECD Test Guideline 402
Assessment: The substance or mixture has no acute dermal toxicity
Remarks: Based on data from similar materials

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2-ethylhexan-1-ol:

Acute oral toxicity	: LD50 (Rat, male): 2.047 mg/kg
Acute inhalation toxicity	: LC50 (Rat): 4,3 mg/l Exposure time: 4 h Test atmosphere: dust/mist
Acute dermal toxicity	: LD50 (Rat, male and female): > 3.000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute dermal toxicity

Skin corrosion/irritation

Causes mild skin irritation.
Causes skin irritation.

Product:

Species	: Rabbit
Assessment	: Irritating to skin.
Method	: OECD Test Guideline 404
Result	: Skin irritation
Remarks	: May cause skin irritation and/or dermatitis.

Components:**Fatty acids, C8-10, Me esters:**

Species	: Rabbit
Method	: OECD Test Guideline 404
Result	: Mild skin irritation

indoxacarb (ISO):

Species	: Rabbit
Assessment	: Not classified as irritant
Method	: OECD Test Guideline 404
Result	: slight irritation
GLP	: yes

Fatty acids, soya, Me esters:

Result	: slight irritation
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calcium dodecylbenzenesulphonate:

Species	: Rabbit
Method	: OECD Test Guideline 404
Result	: Skin irritation

2-ethylhexan-1-ol:

Species	: Rabbit
Method	: OECD Test Guideline 404

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Result : Skin irritation

Serious eye damage/eye irritation

Not classified based on available information.

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

Product:

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

Remarks : Vapours may cause irritation to the eyes, respiratory system and the skin.

Components:**Fatty acids, C8-10, Me esters:**

Species	: Rabbit
Result	: No eye irritation
Method	: Regulation (EC) No. 440/2008, Annex, B.5

indoxacarb (ISO):

Species	: Rabbit
Result	: slight irritation
Assessment	: Not classified as irritant
Method	: OECD Test Guideline 405
GLP	: yes
Remarks	: Product dust may be irritating to eyes, skin and respiratory system.

Fatty acids, soya, Me esters:

Result : Irritation to eyes, reversing within 7 days

calcium dodecylbenzenesulphonate:

Species	: Rabbit
Result	: Irreversible effects on the eye
Method	: OECD Test Guideline 405
Remarks	: Based on data from similar materials

Species	: Rabbit
Result	: Irreversible effects on the eye
Method	: OECD Test Guideline 405

2-ethylhexan-1-ol:

Species	: Rabbit
Result	: Irritation to eyes, reversing within 21 days
Method	: OECD Test Guideline 405

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Respiratory or skin sensitisation**Skin sensitisation**

May cause an allergic skin reaction.

Skin sensitisation

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

Respiratory sensitisation

Not classified based on available information.

Respiratory sensitisation

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

Product:

Test Type	: Maximisation Test
Exposure routes	: Skin contact
Species	: Guinea pig
Method	: OECD Test Guideline 406
Result	: Did not cause sensitisation on laboratory animals.
GLP	: yes

Components:**Fatty acids, C8-10, Me esters:**

Test Type	: Maximisation Test
Exposure routes	: Intradermal
Species	: Guinea pig
Method	: OECD Test Guideline 406
Result	: Does not cause skin sensitisation.
Remarks	: Based on data from similar materials

indoxacarb (ISO):

Test Type	: Local lymph node assay (LLNA)
Exposure routes	: Skin contact
Species	: Mouse
Assessment	: The product is a skin sensitiser, sub-category 1B.
Method	: OECD Test Guideline 429
Result	: May cause sensitisation by skin contact.
GLP	: yes

Test Type	: Maximisation Test
Species	: Guinea pig
Assessment	: May cause sensitisation by skin contact.
Method	: US EPA Test Guideline OPPTS 870.2600
Result	: May cause sensitisation by skin contact.
GLP	: yes

Fatty acids, soya, Me esters:

Result	: Does not cause skin sensitisation.
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calcium dodecylbenzenesulphonate:

Test Type	: Maximisation Test
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Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	Not a skin sensitizer.
Remarks	:	Based on data from similar materials

Germ cell mutagenicity

Not classified based on available information.

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

Product:

Genotoxicity in vitro	:	Test Type: Ames test Method: OECD Test Guideline 471 Result: negative
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	:	Test Type: Ames test Method: OECD Test Guideline 472 Result: negative
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Genotoxicity in vivo	:	Test Type: Micronucleus test Method: OECD Test Guideline 474 Result: negative
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Germ cell mutagenicity - Assessment	:	Test on bacterial cultures did not show mutagenic effects., Animal testing did not show any mutagenic effects.
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Components:**Fatty acids, C8-10, Me esters:**

Genotoxicity in vitro	:	Test Type: Chromosome aberration test in vitro Test system: Human lymphocytes Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 473 Result: negative
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	:	Test Type: In vitro mammalian cell gene mutation test Test system: mouse lymphoma cells Method: OECD Test Guideline 476 Result: negative
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	:	Test Type: Ames test Method: OECD Test Guideline 471 Result: negative
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Germ cell mutagenicity - Assessment	:	In vitro tests did not show mutagenic effects
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indoxacarb (ISO):

Genotoxicity in vitro	:	Test Type: reverse mutation assay Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative
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	:	Test Type: gene mutation test
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Test system: Chinese hamster ovary cells
Method: OECD Test Guideline 476
Result: negative

Genotoxicity in vivo : Test Type: Micronucleus test
Species: Mouse
Method: OECD Test Guideline 474
Result: negative

Germ cell mutagenicity - Assessment : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

calcium dodecylbenzenesulphonate:

Genotoxicity in vitro : Test Type: reverse mutation assay
Method: OECD Test Guideline 471
Result: negative
Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: chromosome aberration assay
Species: Rat (male and female)
Application Route: Oral
Exposure time: 90 d
Result: negative
Remarks: Based on data from similar materials

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

2-ethylhexan-1-ol:

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

Genotoxicity in vivo : Test Type: Micronucleus test
Species: Mouse
Application Route: Intraperitoneal injection
Result: negative

Carcinogenicity

Not classified based on available information.

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

Product:

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

Components:**indoxacarb (ISO):**

Species : Rat, female
Application Route : Oral
Exposure time : 24 m

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Result : 2,13 mg/kg bw/day
: negative

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

Fatty acids, soya, Me esters:

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

calcium dodecylbenzenesulphonate:

Species : Rat, male and female
Application Route : Oral
Exposure time : 720 d
NOAEL : 250 mg/kg body weight
Result : negative
Remarks : Based on data from similar materials

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

2-ethylhexan-1-ol:

Species : Rat
Application Route : Oral
Exposure time : 24 month(s)
Result : negative

Reproductive toxicity

Not classified based on available information.
Based on available data, the classification criteria are not met.

Product:

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

Components:

Fatty acids, C8-10, Me esters:

Effects on fertility : Species: Rat
Application Route: Oral
Dose: 0, 250, 500 and 1000 mg/kg bw
General Toxicity - Parent: NOAEL: 1.000 mg/kg body weight
Method: OECD Test Guideline 422
Remarks: Based on data from similar materials
No significant adverse effects were reported

Effects on foetal development : Species: Rat
Application Route: Oral
Teratogenicity: NOAEL: 1.000 mg/kg body weight
Method: OECD Test Guideline 422
Remarks: Based on data from similar materials
No significant adverse effects were reported

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

indoxacarb (ISO):

Effects on fertility : Test Type: Two-generation study
Species: Rat
Result: Animal testing did not show any effects on fertility.

Effects on foetal development : Species: Rabbit
General Toxicity Maternal: NOEL: 500 mg/kg bw/day
Developmental Toxicity: NOEL: 500 mg/kg bw/day
Method: EPA OPP 83-3

Reproductive toxicity - Assessment : Animal testing did not show any effects on fertility.
Animal testing did not show any effects on foetal development.

calcium dodecylbenzenesulphonate:

Effects on fertility : Test Type: Fertility/early embryonic development
Species: Rat, male and female
Application Route: Ingestion
General Toxicity - Parent: NOAEL: 400 mg/kg body weight
Method: OECD Test Guideline 422
Result: negative

Effects on foetal development : Test Type: reproductive and developmental toxicity study
Species: Rat
Application Route: Ingestion
General Toxicity Maternal: NOAEL: 300 mg/kg body weight
Developmental Toxicity: NOAEL: 600 mg/kg body weight
Method: OECD Test Guideline 422
Result: negative

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

2-ethylhexan-1-ol:

Effects on foetal development : Test Type: Embryo-foetal development
Species: Mouse
Application Route: Oral
Method: OECD Test Guideline 414
Result: negative

STOT - single exposure

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

Components:**indoxacarb (ISO):**

Target Organs : Central nervous system

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Assessment : The substance or mixture is classified as specific target organ toxicant, single exposure, category 2.

2-ethylhexan-1-ol:

Assessment : May cause respiratory irritation.

STOT - repeated exposure

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

Product:

Assessment : Causes damage to organs through prolonged or repeated exposure.

Components:

Fatty acids, C8-10, Me esters:

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

indoxacarb (ISO):

Target Organs : Blood, Nervous system
Assessment : Causes damage to organs through prolonged or repeated exposure.

Repeated dose toxicity

Product:

Species : Rat, female
Application Route : Oral - feed
Exposure time : 28 d
Method : OECD Test Guideline 408
GLP : yes
Target Organs : Blood

Species : Rat, female
Application Route : Oral - feed
Exposure time : 90 d
Method : OECD Test Guideline 408
GLP : yes
Target Organs : Blood

Components:

Fatty acids, C8-10, Me esters:

Species : Rat
NOAEL : 1.000 mg/kg
Application Route : Oral
Dose : 0, 250, 500 and 1000 mg/kg bw/
Method : OECD Test Guideline 422
Remarks : Based on data from similar materials

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No significant adverse effects were reported

indoxacarb (ISO):

Species	: Rat, female
NOAEL	: 1,7 mg/kg
LOAEL	: 4,1 mg/kg
Application Route	: Oral
Exposure time	: 90 d
Method	: OECD Test Guideline 408
GLP	: yes
Target Organs	: Blood

calcium dodecylbenzenesulphonate:

Species	: Rat, male and female
NOAEL	: 85 mg/kg
LOAEL	: 145 mg/kg
Application Route	: Oral
Exposure time	: 9 Months
Remarks	: Based on data from similar materials

Species	: Rat, male
LOAEL	: 286 mg/kg
Application Route	: Skin contact
Exposure time	: 15 Days
Remarks	: Based on data from similar materials

Species	: Rat, male and female
NOAEL	: 100 mg/kg bw/day
LOAEL	: 200 mg/kg bw/day
Application Route	: Oral - gavage
Exposure time	: 28 - 54 Days
Method	: OECD Test Guideline 422
Remarks	: Based on data from similar materials

2-ethylhexan-1-ol:

Species	: Rat
	: 250 mg/kg
Application Route	: Oral
Exposure time	: 13 Weeks
Method	: OECD Test Guideline 408

Aspiration toxicity

Not classified based on available information.
Based on available data, the classification criteria are not met.

Product:

No aspiration toxicity classification

Further information

Product:

Remarks	: No data available
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Components:

indoxacarb (ISO):

Remarks : Acute effects on nervous system: drowsiness, tremors, paralysis.
Chronic, additionally: Cyanosis

12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 7,0 mg/l
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 203
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1,67 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202
GLP: yes

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): > 16 mg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: yes

Components:

Fatty acids, C8-10, Me esters:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 100 mg/l
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1,1 mg/l
Exposure time: 48 h
Test Type: semi-static test
Method: OECD Test Guideline 202
Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants : EC50 (green algae): 1,35 mg/l
Exposure time: 96 h
Method: QSAR
Remarks: Based on data from similar materials

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indoxacarb (ISO):

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0,65 mg/l
 Exposure time: 96 h
 Test Type: flow-through test
 Method: OECD Test Guideline 203
 GLP: yes
- LC50 (Oncorhynchus mykiss (rainbow trout)): >0.17 mg a.i./kg
 Exposure time: 96 h
 Test Type: flow-through test
 Method: OECD Test Guideline 203
 GLP: yes
- LC50 (Lepomis macrochirus (Bluegill sunfish)): 0,90 mg/l
 Exposure time: 96 h
 Test Type: flow-through test
 Method: OECD Test Guideline 203
 GLP: yes
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 0.17 mg a.i./kg
 Exposure time: 48 h
 Test Type: flow-through test
 Method: OECD Test Guideline 202
 GLP: yes
- Toxicity to algae/aquatic plants : NOEC (Pseudokirchneriella subcapitata (algae)): 0,0793 mg/l
 Exposure time: 72 h
 Test Type: Growth inhibition
 Method: OECD Test Guideline 201
 GLP: yes
- EbC50 (Lemna gibba (duckweed)): 0,084 mg/l
 Exposure time: 7 d
- M-Factor (Acute aquatic toxicity) : 1
- Toxicity to fish (Chronic toxicity) : NOEC (Oncorhynchus mykiss (rainbow trout)): 0,15 mg/l
 Exposure time: 90 d
 Test Type: Early Life-Stage
 Method: OECD Test Guideline 210
 GLP: yes
- NOEC (Pimephales promelas (fathead minnow)): 0,0675 mg/l
 Exposure time: 28 d
 Test Type: Early Life-Stage
 Method: OECD Test Guideline 210
 GLP: yes
- LOEL (Cyprinodon variegatus (sheepshead minnow)): 0,0417 mg/l
 Exposure time: 35 d
 Test Type: flow-through test
 Method: US EPA Test Guideline OPP 72-4

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NOEL (Cyprinodon variegatus (sheepshead minnow)): 0,0169 mg/l
Exposure time: 35 d
Test Type: flow-through test
Method: US EPA Test Guideline OPP 72-4

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0,09 mg/l
Exposure time: 21 d
Method: OECD Test Guideline 202
GLP: yes

NOEC (Daphnia magna (Water flea)): 0,0351 mg/l
Exposure time: 21 d
Test Type: Static renewal test
Method: OECD Test Guideline 211
GLP: yes

M-Factor (Chronic aquatic toxicity) : 1

Toxicity to soil dwelling organisms : LC50 (Eisenia fetida (earthworms)): > 1.250 mg/kg
Exposure time: 14 d
Method: OECD Test Guideline 207
GLP: yes

Method: OECD Test Guideline 216
Remarks: No significant adverse effect on nitrogen mineralization.

Method: OECD Test Guideline 217
Remarks: No significant adverse effect on carbon mineralization.

Toxicity to terrestrial organisms : NOEL (Apis mellifera (bees)): 0,048 µg/bee
End point: Acute contact toxicity
Method: OECD Test Guideline 214

NOEL (Apis mellifera (bees)): 0,163 µg/bee
End point: Acute oral toxicity
Method: OECD Test Guideline 213

LD50 (Apis mellifera (bees)): 0,232 µg/bee
Exposure time: 48 h
End point: Acute oral toxicity
Method: OECD Test Guideline 213

LD50 (Apis mellifera (bees)): 0,068 µg/bee
Exposure time: 48 h
End point: Acute contact toxicity
Method: OECD Test Guideline 214

LD50 (Colinus virginianus (Bobwhite quail)): 98 mg/kg
Method: US EPA Test Guideline OPP 71-1
GLP: yes

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NOEC (Anas platyrhynchos (Mallard duck)): 720 ppm
Exposure time: 147 d
End point: Reproduction Test
Method: OECD Test Guideline 206
GLP: yes

NOEC (Colinus virginianus (Bobwhite quail)): 144 ppm
Exposure time: 147 d
End point: Reproduction Test
Method: OECD Test Guideline 206

NOEC (Anas platyrhynchos (Mallard duck)): 562 ppm
Exposure time: 5 d
Method: US EPA Test Guideline OPP 71-2
Remarks: Dietary

LC50 (Anas platyrhynchos (Mallard duck)): > 5.620 ppm
Exposure time: 5 d
Method: US EPA Test Guideline OPP 71-2
Remarks: Dietary

NOEC (Colinus virginianus (Bobwhite quail)): 316 ppm
Exposure time: 5 d
Method: US EPA Test Guideline OPP 71-1
Remarks: Dietary

LC50 (Colinus virginianus (Bobwhite quail)): 808 ppm
Exposure time: 5 d
Method: US EPA Test Guideline OPP 71-2
Remarks: Dietary

Fatty acids, soya, Me esters:

Toxicity to fish : LC50 (Fish): > 1.000 mg/l
Exposure time: 96 h

LC50 (Leuciscus idus (Golden orfe)): > 100 mg/l
Exposure time: 48 h
Method: ISO 7346/2

Toxicity to daphnia and other : EC50 (Crustaceans): 800 - 5.243 mg/l
aquatic invertebrates Exposure time: 48 h

calcium dodecylbenzenesulphonate:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 10 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
Remarks: Based on data from similar materials

LC50 (Pimephales promelas (fathead minnow)): 4,6 mg/l
Exposure time: 96 h
Remarks: Based on data from similar materials

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 3,5 mg/l
aquatic invertebrates Exposure time: 48 h

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- Method: OECD Test Guideline 202
Remarks: Based on data from similar materials
- Toxicity to algae/aquatic plants : NOEC (*Pseudokirchneriella subcapitata* (green algae)): 7,9 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
Remarks: Based on data from similar materials
- EC50 (*Pseudokirchneriella subcapitata* (green algae)): 65,4 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
Remarks: Based on data from similar materials
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (*Daphnia magna* (Water flea)): 1,65 mg/l
Exposure time: 21 d
Remarks: Based on data from similar materials
- NOEC (*Daphnia magna* (Water flea)): 1,18 mg/l
Exposure time: 21 d
Remarks: Based on data from similar materials
- Toxicity to microorganisms : EC50 (activated sludge): 500 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209
- Toxicity to soil dwelling organisms : LC50 (*Eisenia fetida* (earthworms)): 1.000 mg/kg
Exposure time: 14 d
Method: OECD Test Guideline 207
- Toxicity to terrestrial organisms : LD50 (*Colinus virginianus* (Bobwhite quail)): 1.356 mg/kg
Exposure time: 14 d
Method: OECD Test Guideline 223
- 2-ethylhexan-1-ol:**
- Toxicity to fish : LC50 (*Leuciscus idus* (Golden orfe)): 17,1 - 28,2 mg/l
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 39 mg/l
Exposure time: 48 h
- Toxicity to algae/aquatic plants : EC10 (*Desmodesmus subspicatus* (green algae)): 3,2 mg/l
Exposure time: 72 h
- EC50 (*Desmodesmus subspicatus* (green algae)): 11,5 mg/l
Exposure time: 72 h
- Toxicity to microorganisms : EC50 (*Anabaena flos-aquae* (cyanobacterium)): 16,6 mg/l
Exposure time: 72 h

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Persistence and degradability**Components:****Fatty acids, C8-10, Me esters:**

Biodegradability : aerobic
Inoculum: activated sludge
Concentration: 7,84 mg/l
Result: Readily biodegradable.
Biodegradation: 77 %
Exposure time: 28 d
Method: OECD Test Guideline 301D

indoxacarb (ISO):

Biodegradability : Result: Not readily biodegradable.

Fatty acids, soya, Me esters:

Biodegradability : Result: Readily biodegradable.

calcium dodecylbenzenesulphonate:

Biodegradability : Result: Readily biodegradable.
Method: OECD Test Guideline 301E

2-ethylhexan-1-ol:

Biodegradability : Result: Readily biodegradable.

Bioaccumulative potential**Product:**

Bioaccumulation : Remarks: No data available

Components:**indoxacarb (ISO):**

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)
Bioconcentration factor (BCF): 77,3
Exposure time: 21 d
Method: OECD Test Guideline 305

Partition coefficient: n-octanol/water : log Pow: 4,52 (20 °C)
Method: OECD Test Guideline 107
GLP: yes

Fatty acids, soya, Me esters:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

calcium dodecylbenzenesulphonate:

Bioaccumulation : Species: Fish
Bioconcentration factor (BCF): 70,79
Method: QSAR

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Partition coefficient: n-octanol/water : log Pow: 4,77 (25 °C)

2-ethylhexan-1-ol:

Partition coefficient: n-octanol/water : log Pow: 2,9 (25 °C)

Mobility in soil

Components:

indoxacarb (ISO):

Distribution among environmental compartments : Koc: 4483 ml/g, log Koc: 3,65
Remarks: Low mobility in soil

Kd: 46 - 150

Stability in soil :

Other adverse effects

Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic life with long lasting effects.

Components:

indoxacarb (ISO):

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.

Hygienic standards:

(Allowable concentration in air, water, including fishery waters, soil)

Components	Air	Water	Soil	Data Source
2-ethylhexan-1-ol 104-76-7	MPC - maximum: 0,15 mg/m ³ Limiting health hazard indicator: reflective Hazard class: Class 4 - low hazard	MPC: 0,09 Milligrams per cubed decimeter Limiting health hazard indicator: toxic Hazard class: 4 MPC: 0,01 Milligrams per cubed decimeter Limiting health hazard indicator: sanitary and toxico-	No data available	List 1 List 4 List 5

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		logical effects Hazard class: 3 MAC: 0,15 mg/l Limiting health hazard indicator: general sanitary Hazard class: Class 3 - moderately dangerous		
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For explanation of abbreviations see section 16.

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.
Do not re-use empty containers.
Packaging that is not properly emptied must be disposed of as the unused product.
Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

ADR

- UN number : UN 3082
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Indoxacarb)
Class : 9
Packing group : III
Labels : 9
Hazard Identification Number : 90
Tunnel restriction code : (-)
Environmentally hazardous : yes

UNRTDG

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

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IATA-DGR

UN/ID No. : UN 3082
Proper shipping name : Environmentally hazardous substance, liquid, n.o.s. (Indoxacarb)
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. (Indoxacarb)
Class : 9
Packing group : III
Labels : 9
EmS Code : F-A, S-F
Marine pollutant : yes

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

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.

METHYL (S)-7-CHLORO-2,3,4A,5-TETRAHYDRO-2-
{(METHOXYCARBONYL)[4-
(TRIFLUOROMETHOXY)PHENYL]CARBAMOYL}INDENO[1,
2-E][1,3,4]OXADIAZINE-4A-CARBOXYLATE
Fatty acids, C8-10, Me esters
Fatty acids, C6-10, Me esters

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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

Full text of H-Statements

H227	Combustible liquid.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H303	May be harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H316	Causes mild skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H320	Causes eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H371	May cause damage to organs.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H401	Toxic to aquatic life.
H402	Harmful to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Acute	: Short-term (acute) aquatic hazard
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Eye Dam.	: Serious eye damage
Eye Irrit.	: Eye irritation
Flam. Liq.	: Flammable liquids
Skin Irrit.	: Skin irritation
Skin Sens.	: Skin sensitisation
STOT RE	: Specific target organ toxicity - repeated exposure
STOT SE	: Specific target organ toxicity - single exposure
List 1	: SanPiN 1.2.3685-21 Table 1.1, Table 1.10, & Table 1.11 Maximum permissible concentration (MPC) in the air of urban and rural settlements

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- List 4 : SanPiN 1.2.3685-21 Table 3.13, Table 3.15, Table 3.16 & Table 3.17 Maximum permissible concentrations (MPC) of chemicals in the water of drinking systems of centralized, including hot, and non-centralized water supply, water of underground and surface water bodies of domestic drinking and cultural and domestic water use, water of swimming pools, water parks
- List 5 : Order of the Russian Federal Fisheries Agency "Standards of maximum permissible concentrations of harmful substances in fishery water bodies"

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; 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; 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; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; 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

Other information :

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