

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



CHLORPYRIFOS 480 G/L EC

| | | | |
|---------|----------------|-------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: - |
| 1.0 | 13.11.2024 | 50001337 | Date of first issue: 13.11.2024 |

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name CHLORPYRIFOS 480 G/L EC

Other means of identification

Product code 50001337

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture : Insecticide

Recommended restrictions on use : Use as recommended by the label.
For professional users only.

1.3 Manufacturer or supplier's details

Supplier Address FMC Agricultural Solutions A/S
Thyborønvej 78
DK-7673 Harbøre
Denmark

Telephone: +45 9690 9690
Telefax: +45 9690 9691
E-mail address: SDS-Info@fmc.com .

1.4 Emergency telephone number

For leak, fire, spill or accident emergencies, call:
Denmark: +45-69918573 (CHEMTREC)

Medical emergency:
Denmark: +45 82 12 12 12

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 3 H301: Toxic if swallowed.

Acute toxicity, Category 4 H332: Harmful if inhaled.

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|--|---|
| Eye irritation, Category 2 | H319: Causes serious eye irritation. |
| Carcinogenicity, Category 2 | H351: Suspected of causing cancer. |
| Specific target organ toxicity - single exposure, Category 3, Central nervous system | H336: May cause drowsiness or dizziness. |
| Aspiration hazard, Category 1 | H304: May be fatal if swallowed and enters airways. |
| Short-term (acute) aquatic hazard, Category 1 | H400: Very toxic to aquatic life. |
| Long-term (chronic) aquatic hazard, Category 1 | H410: Very toxic to aquatic life with long lasting effects. |

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements :

| | |
|------|---|
| H301 | Toxic if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H336 | May cause drowsiness or dizziness. |
| H351 | Suspected of causing cancer. |
| H410 | Very toxic to aquatic life with long lasting effects. |

Precautionary statements :

Prevention:

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Rinse mouth.
P331 Do NOT induce vomiting.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Disposal:

P501 Dispose of contents/container as hazardous waste in accordance with local regulations.

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Hazardous components which must be listed on the label:

Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified
chlorpyrifos (ISO)
calcium dodecylbenzenesulphonate
2-ethylhexan-1-ol

Additional Labelling

EUH066 Repeated exposure may cause skin dryness or cracking.

EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

For special phrases (SP) and safety intervals, consult the label.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

| Chemical name | CAS-No. EC-No. Index-No. Registration number | Classification | Concentration (% w/w) |
|--|---|---|--------------------------|
| Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified | 64742-94-5 265-198-5 649-424-00-3 | Carc. 2; H351 STOT SE 3; H336 (Central nervous system) Asp. Tox. 1; H304 Aquatic Chronic 2; H411 EUH066 | >= 50 - < 70 |
| chlorpyrifos (ISO) | 2921-88-2 220-864-4 015-084-00-4 | Acute Tox. 3; H301 Aquatic Acute 1; H400 Aquatic Chronic 1; | >= 30 - < 50 |

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| | | H410 M-Factor (Acute aquatic toxicity): 10.000 M-Factor (Chronic aquatic toxicity): 10.000 Acute toxicity estimate Acute oral toxicity: 100 mg/kg | |
| calcium dodecylbenzenesulphonate | 26264-06-2 247-557-8 | Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 4; H413 Acute toxicity estimate Acute oral toxicity: 1.300 mg/kg | $\geq 1 - < 2,5$ |
| 2-ethylhexan-1-ol | 104-76-7 203-234-3 | Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335 (Respiratory system) Acute toxicity estimate Acute inhalation toxicity (dust/mist): 4,3 mg/l | $\geq 1 - < 10$ |

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.
Symptoms of poisoning may appear several hours later.
Do not leave the victim unattended.
- Protection of first-aiders : Avoid inhalation, ingestion and contact with skin and eyes.

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| If inhaled | : Remove 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. If breathing has stopped, apply artificial respiration. |
| In case of skin contact | : If on clothes, remove clothes. If on skin, rinse well with water. Wash off immediately with plenty of water. Get medical attention if irritation develops and persists. |
| In case of eye contact | : Immediately flush eye(s) with plenty of water. 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 induce vomiting. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. Take victim immediately to hospital. |

4.2 Most important symptoms and effects, both acute and delayed

- | | |
|----------|--|
| Symptoms | : The first symptom to appear may be irritation. Symptoms of cholinesterase inhibition: nausea, headache, vomiting, cramps, weakness, blurred vision, pin-point pupils, tightness in chest, laboured breathing, nervousness, sweating, watering of eyes, drooling or frothing of mouth and nose, muscle spasms and coma. |
| Risks | : Toxic if swallowed. May be fatal if swallowed and enters airways. Causes serious eye irritation. Harmful if inhaled. May cause drowsiness or dizziness. Suspected of causing cancer. Repeated exposure may cause skin dryness or cracking. |

4.3 Indication of any immediate medical attention and special treatment needed

- | | |
|-----------|--|
| Treatment | : If any of the signs of cholinesterase inhibition occurs, call a doctor (physician), clinic or hospital immediately. Explain that the victim has been exposed to an organophosphorus insecticide. Describe his/her condition and the extent of exposure. Immediately remove the exposed person from the area where the product is present. |
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In an industrial setting, the antidote atropine sulphate should be available at the workplace.
It may be helpful to show this safety data sheet to physician. Chlorpyrifos is a cholinesterase inhibitor affecting the central and peripheral nervous systems producing respiratory depression.
The product contains petroleum distillates which may pose an aspiration pneumonia hazard.

Much information on (acetyl)cholinesterase inhibition and its treatment can be found on the internet.
Decontamination procedures such as whole body washing, gastric lavage and administration of activated charcoal are often required.
ANTIDOTE: If symptoms of cholinesterase inhibition (see subsection 4.2.) are present, administer atropine sulphate, which often is a lifesaving antidote, in large doses, TWO to FOUR mg intravenously or intramuscularly as soon as possible. Repeat at 5 to 10 minute intervals until signs of atropinisation appear and maintain full atropinisation until the chemical product is fully metabolised.

Obidoxime chloride (Toxogonin), alternatively pralidoxime chloride(2-PAM), may be administered as an adjunct to, but not a substitute for atropine sulphate. Treatment with oxime should be maintained as long as atropine sulphate is administered.
At first sign of pulmonary oedema the patient should be given supplementary oxygen and treated symptomatically.
Relapse can occur after initial improvement. VERY CLOSE SUPERVISION OF THE PATIENT IS INDICATED FOR AT LEAST 48 HOURS, DEPENDING ON THE SEVERITY OF POISONING.

SECTION 5: Firefighting measures

5.1 Extinguishing media

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

5.2 Special hazards arising from the substance or mixture

- | | | |
|---------------------------------------|---|---|
| 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. Nitrogen oxides (NO _x) Carbon oxides |

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Oxides of phosphorus
Sulphur oxides
Chlorine compounds
Hydrogen chloride
hydrogen sulphide
Ethyl mercaptan
Diethyl sulphide

5.3 Advice for firefighters

- Special protective equipment : Wear self-contained breathing apparatus for firefighting if necessary.
- Further information : 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.
For safety reasons in case of fire, cans should be stored separately in closed containments.
Use a water spray to cool fully closed containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Personal precautions : Use personal protective equipment.
Ensure adequate ventilation.
If it can be safely done, stop the leak.
Do not touch or walk through the spilled material.
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.

6.2 Environmental precautions

- 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.

6.3 Methods and material for containment and cleaning up

- Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

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|---|---|
| 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. |
| 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. |
| Hygiene measures | : Avoid contact with skin, eyes and clothing. When using do not eat or drink. When using do not smoke. Wash hands before breaks and immediately after handling the product. |

7.2 Conditions for safe storage, including any incompatibilities

- | | |
|---|--|
| Requirements for storage areas and containers | : Prevent unauthorized access. No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards. |
| Further information on storage conditions | : The product is stable under normal conditions of warehouse storage. Protect against sunshine for prolonged periods. 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. |
| Further information on storage stability | : No decomposition if stored and applied as directed. |

7.3 Specific end use(s)

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| Specific use(s) | : Registered pesticide to be used in accordance with a label approved by country-specific regulatory authorities. |
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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

| Components | CAS-No. | Value type (Form of exposure) | Control parameters | Basis |
|--------------------|---|-------------------------------|---------------------------------|-------------|
| chlorpyrifos (ISO) | 2921-88-2 | GV | 0,2 mg/m ³ | DK OEL |
| | Further information: Means that the substance can be absorbed through the skin. | | | |
| | | S | 0,4 mg/m ³ | DK OEL |
| | Further information: Means that the substance can be absorbed through the skin. | | | |
| 2-ethylhexan-1-ol | 104-76-7 | TWA | 1 ppm 5,4 mg/m ³ | 2017/164/EU |
| | Further information: Indicative | | | |
| | | GV | 1 ppm 5,4 mg/m ³ | DK OEL |
| | | S | 2 ppm 10,8 mg/m ³ | DK OEL |

8.2 Exposure controls

Personal protective equipment

Eye/face protection : Eye wash bottle with pure water
Tightly fitting safety goggles
Wear face-shield and protective suit for abnormal processing problems.

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.

Skin and body protection : Impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection : In the case of dust or aerosol formation use respirator with an approved filter.

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.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|--|--|
| Physical state | : liquid |
| Colour | : yellowish-brown |
| Odour | : Aromatic hydrocarbon |
| Melting point/freezing point | : < 0 °C |
| Boiling point/boiling range | : Decomposition |
| Upper explosion limit / Upper flammability limit | : Not available for this mixture. |
| Lower explosion limit / Lower flammability limit | : Not available for this mixture. |
| Flash point | : 70 °C Method: Pensky-Martens closed cup |
| Decomposition temperature | : not determined see subsection 10.2 |
| pH | : 5,9 (25 °C) Concentration: 1 % |
| Viscosity | |
| Viscosity, dynamic | : 3,6 mPa.s (25 °C) 2 - 2,3 mPa.s (45 °C) |
| Viscosity, kinematic | : No data available |
| Solubility(ies) | |
| Water solubility | : No data available |
| Solubility in other solvents | : No data available |
| Partition coefficient: n-octanol/water | : Not available for this mixture. |
| Vapour pressure | : Not available for this mixture. |
| Density | : 1,083 g/cm ³ (20 °C) |
| Relative vapour density | : Not available for this mixture. |
| Particle characteristics | |
| Particle size | : Not applicable |

9.2 Other information

| | |
|------------------------|---------------------|
| Explosives | : Not explosive |
| Oxidizing properties | : Non-oxidizing |
| Flammability (liquids) | : No data available |
| Self-ignition | : 460 °C |
| Miscibility with water | : Miscible |

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

Chlorpyrifos will decompose rapidly when heated to temperatures above 160°C, significantly increasing the risk of explosion. Direct local heating of the product such as electric heat-

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ing or by steam must be avoided.
The decomposition is to a considerable extent dependent on time as well as temperature due to self-accelerating exothermic and autocatalytic reactions. The reactions involve rearrangements and polymerisation releasing volatile malodorous and inflammable compounds such as diethyl sulphide and ethyl mercaptan.

10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if stored and applied as directed.

Vapours may form explosive mixture with air.

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.
Heating of the product will produce harmful and irritant vapours.

10.5 Incompatible materials

Materials to avoid : Avoid strong acids, bases, and oxidizers

10.6 Hazardous decomposition products

Stable under recommended storage conditions.
See subsection 5.2.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Toxic if swallowed.
Harmful if inhaled.

Product:

Acute oral toxicity : LD50 (Rat, male): 205 mg/kg
Method: FIFRA 81.01

Acute inhalation toxicity : LC50 (Rat): 2,16 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: FIFRA 81.03

Acute dermal toxicity : LD50 (Rat): > 4.000 mg/kg
Method: FIFRA 81.02

Components:

Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

Acute oral toxicity : LD50 (Rat, male and female): > 5.000 mg/kg
Method: OECD Test Guideline 401

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Remarks: Based on data from similar materials

Acute inhalation toxicity : LC50 (Rat, male and female): > 5,28 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Assessment: The substance or mixture has no acute inhalation toxicity
Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rabbit, male and female): > 2.000 mg/kg
Method: OECD Test Guideline 402
Assessment: The substance or mixture has no acute dermal toxicity
Remarks: Based on data from similar materials

chlorpyrifos (ISO):

Acute oral toxicity : LD50 (Rat, male and female): 276 - 350 mg/kg
Method: US EPA Test Guideline OPP 81-1
Symptoms: ataxia, Breathing difficulties, Tremors
GLP: yes

Acute inhalation toxicity : LC50 (Rat, male and female): > 0,036 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: US EPA Test Guideline OPP 81-3
GLP: yes
Assessment: The substance or mixture has no acute inhalation toxicity
Remarks: Highest attainable concentration.
no mortality

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg
Method: US EPA Test Guideline OPP 81-2
Symptoms: Breathing difficulties, ataxia, Tremors
GLP: yes
Assessment: The component/mixture is minimally toxic after single contact with skin.
Remarks: no mortality

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:

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|---------------------------|--|
| 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

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

Product:

| | |
|------------|---|
| Species | : Rabbit |
| Assessment | : No skin irritation |
| Method | : FIFRA 81.05 |
| Remarks | : slight irritation Minimal effects that do not meet the threshold for classification. |
| Assessment | : Repeated exposure may cause skin dryness or cracking. |

Components:

Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

| | |
|------------|---|
| Species | : Rabbit |
| Result | : No skin irritation |
| Assessment | : Repeated exposure may cause skin dryness or cracking. |

chlorpyrifos (ISO):

| | |
|------------|------------------------------|
| Species | : Rabbit |
| Assessment | : Not classified as irritant |
| Method | : EPA OPP 81-5 |
| Result | : slight irritation |
| GLP | : yes |

calcium dodecylbenzenesulphonate:

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

2-ethylhexan-1-ol:

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

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Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

| | | |
|---------|---|----------------|
| Species | : | Rabbit |
| Method | : | FIFRA 81.04 |
| Result | : | Eye irritation |

Components:

Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

| | | |
|---------|---|--------------------------------------|
| Species | : | Rabbit |
| Result | : | No eye irritation |
| Remarks | : | Based on data from similar materials |

chlorpyrifos (ISO):

| | | |
|------------|---|----------------------------|
| Species | : | Rabbit |
| Assessment | : | Not classified as irritant |
| Method | : | EPA OPP 81-4 |
| Result | : | slight irritation |
| GLP | : | yes |

calcium dodecylbenzenesulphonate:

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

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

2-ethylhexan-1-ol:

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

Respiratory or skin sensitisation

Skin sensitisation

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

Respiratory sensitisation

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

Product:

| | | |
|---------|---|------------------------|
| Species | : | Guinea pig |
| Method | : | FIFRA 81.06 |
| Result | : | Not a skin sensitizer. |

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Components:

Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

| | | |
|-----------|---|--------------------------------------|
| Test Type | : | Buehler Test |
| Species | : | Guinea pig |
| Result | : | Does not cause skin sensitisation. |
| Remarks | : | Based on data from similar materials |

chlorpyrifos (ISO):

| | | |
|-----------------|---|------------------------|
| Test Type | : | Magnussen-Kligman test |
| Exposure routes | : | Dermal |
| Species | : | Guinea pig |
| Method | : | EPA OPP 81-6 |
| Result | : | Not a skin sensitizer. |
| GLP | : | yes |

calcium dodecylbenzenesulphonate:

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

Germ cell mutagenicity

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

Components:

Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

| | | |
|-----------------------|---|---|
| Genotoxicity in vitro | : | Test Type: reverse mutation assay |
| | | Result: negative |
| | | Remarks: Based on data from similar materials |

| | | |
|----------------------|---|---|
| Genotoxicity in vivo | : | Test Type: sister chromatid exchange assay |
| | | Species: Mouse |
| | | Application Route: Intraperitoneal injection |
| | | Result: negative |
| | | Remarks: Based on data from similar materials |

chlorpyrifos (ISO):

| | | |
|-----------------------|---|---|
| Genotoxicity in vitro | : | Test Type: Ames test |
| | | Metabolic activation: with and without metabolic activation |
| | | Method: OECD Test Guideline 471 |
| | | Result: negative |
| | | GLP: yes |

| | | |
|----------------------|---|--|
| Genotoxicity in vivo | : | Test Type: chromosome aberration assay |
| | | Species: Mouse |

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Method: OECD Test Guideline 474
Result: negative
GLP: yes

Test Type: Cytogenetic assay
Species: Mouse
Method: OECD Test Guideline 475
Result: negative

Germ cell mutagenicity- Assessment : Based on available data, the classification criteria are not met.

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

Suspected of causing cancer.

Components:

Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

Species : Mouse
Application Route : Dermal
Exposure time : 104 weeks
Result : negative
Remarks : Based on data from similar materials

Carcinogenicity - Assessment : Limited evidence of carcinogenicity in animal studies

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ment

chlorpyrifos (ISO):

Carcinogenicity - Assessment : Based on available data, the classification criteria are not met.

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

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

Components:

Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

Effects on fertility : Test Type: Fertility
Species: Rat, male and female
Application Route: Oral
Method: OECD Test Guideline 415
Result: negative
Remarks: Based on data from similar materials

Effects on foetal development : Test Type: reproductive and developmental toxicity study
Species: Rat
Application Route: Oral
Method: OECD Test Guideline 414
Result: negative
Remarks: Based on data from similar materials

chlorpyrifos (ISO):

Effects on fertility : Test Type: Multi-generation study
Species: Rat
General Toxicity - Parent: NOAEL: 0,1 mg/kg bw/day
Early Embryonic Development: NOAEL: 1 mg/kg bw/day
Target Organs: Nervous system

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| | |
|------------------------------------|--|
| Effects on foetal development | : Test Type: Developmental toxicity study Species: Rat General Toxicity Maternal: NOAEL: 1 mg/kg bw/day Developmental Toxicity: NOAEL: 1 mg/kg bw/day Embryo-foetal toxicity: NOAEL: 2,5 mg/kg bw/day Target Organs: Nervous system Result: positive |
| Reproductive toxicity - Assessment | : Animal testing did not show any effects on fertility. Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity. |

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 drowsiness or dizziness.

Components:

Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

| | |
|------------|--------------------------------------|
| Assessment | : May cause drowsiness or dizziness. |
|------------|--------------------------------------|

2-ethylhexan-1-ol:

| | |
|------------|-------------------------------------|
| Assessment | : May cause respiratory irritation. |
|------------|-------------------------------------|

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STOT - repeated exposure

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

Repeated dose toxicity

Components:

Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

| | |
|-------------------|--|
| Species | : Rat, male and female |
| NOAEL | : 750 mg/kg |
| Application Route | : Oral - gavage |
| Exposure time | : 90 day |
| Remarks | : Based on data from similar materials |

| | |
|-------------------|---------------------------------|
| Species | : Rat, male and female |
| NOAEL | : 1 mg/l |
| LOAEL | : 0,5 mg/l |
| Application Route | : inhalation (vapour) |
| Exposure time | : 90 day |
| Symptoms | : Alpha-2u-globulin nephropathy |

chlorpyrifos (ISO):

| | |
|-------------------|-----------------------------|
| Species | : Rat |
| NOAEL | : 1 mg/kg bw/day |
| Application Route | : Ingestion |
| Exposure time | : 90 d |
| Target Organs | : Brain |
| Symptoms | : cholinesterase inhibition |

| | |
|-------------------|-----------------------------|
| Species | : Rat |
| NOAEL | : 5 mg/kg bw/day |
| Application Route | : Dermal |
| Exposure time | : 21 d |
| Target Organs | : Brain, Blood |
| Symptoms | : cholinesterase inhibition |

| | |
|-------------------|---|
| Species | : Rat |
| Application Route | : Inhalation |
| Exposure time | : 90 d |
| Dose | : 5 ,10, 20 ppb |
| Remarks | : Based on available data, the classification criteria are not met. |

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 |

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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

May be fatal if swallowed and enters airways.

Components:

Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

chlorpyrifos (ISO):

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

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Experience with human exposure

Components:

chlorpyrifos (ISO):

Ingestion : Symptoms: Dizziness, Fatigue, Nausea, numbness

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Neurological effects

Components:

chlorpyrifos (ISO):

Remarks : Neurotoxicity observed in animals studies

Further information

Product:

Remarks : Symptoms of cholinesterase inhibition: nausea, headache, vomiting, cramps, weakness, blurred vision, pin-point pupils, tightness in chest, laboured breathing, nervousness, sweating, watering of eyes, drooling or frothing of mouth and nose, muscle spasms and coma.

Remarks : Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
Concentrations substantially above the TLV value may cause narcotic effects.
Solvents may degrease the skin.

Remarks : Chlorpyrifos is a dangerous poison (cholinesterase inhibitor). It rapidly enters the body on contact with all skin surfaces and eyes.
Repeated exposures to cholinesterase inhibitors such as chlorpyrifos may, without warning, cause increased susceptibility to doses of any cholinesterase inhibitor.

Components:

chlorpyrifos (ISO):

Remarks : Chlorpyrifos is a dangerous poison (cholinesterase inhibitor). It rapidly enters the body on contact with all skin surfaces and eyes.
Repeated exposures to cholinesterase inhibitors such as chlorpyrifos may, without warning, cause increased susceptibility to doses of any cholinesterase inhibitor.

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish : LC50 (Salmo gairdneri): 0,048 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,0026 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic : IC50 (Selenastrum capricornutum (green algae)): 0,14 mg/l

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| | |
|-------------------------------------|--|
| plants | Exposure time: 72 h |
| Toxicity to soil dwelling organisms | : LC50: 360 mg/kg Exposure time: 14 d Species: Eisenia fetida (earthworms) |
| Toxicity to terrestrial organisms | : LD50: 83 mg/kg Species: Colinus virginianus (Bobwhite quail) |

Components:

Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

| | |
|---|---|
| Toxicity to fish | : LL50 (Oncorhynchus mykiss (rainbow trout)): 2 - 5 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 Remarks: water accommodated fractions (WAF) |
| Toxicity to daphnia and other aquatic invertebrates | : EL50 (Daphnia magna (Water flea)): 1,4 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 Remarks: water accommodated fractions (WAF) |
| Toxicity to algae/aquatic plants | : EL50 (Pseudokirchneriella subcapitata (green algae)): > 1 - 3 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: water accommodated fractions (WAF) |
| Toxicity to microorganisms | : LL50 (Tetrahymena pyriformis): 677,9 mg/l Exposure time: 72 h Test Type: Growth inhibition |

chlorpyrifos (ISO):

| | |
|---|---|
| Toxicity to fish | : LC50 (Oncorhynchus mykiss (rainbow trout)): 0,025 mg/l Exposure time: 96 h Test Type: flow-through test LC50 (Cyprinus carpio (Carp)): 0,19 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 LC50 (Leuciscus idus (Golden orfe)): 0,01 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 |
| Toxicity to daphnia and other aquatic invertebrates | : EC50 (Daphnia magna (Water flea)): 0,000214 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 |
| Toxicity to algae/aquatic plants | : EbC50 (Desmodesmus subspicatus (green algae)): 0,580 mg/l Exposure time: 72 h |

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Method: OECD Test Guideline 201
GLP: yes

M-Factor (Acute aquatic toxicity) : 10.000

Toxicity to fish (Chronic toxicity) : NOEC: 0,0018 mg/l
End point: Growth
Exposure time: 21 d
Species: Oncorhynchus mykiss (rainbow trout)
Test Type: flow-through test
Method: OECD Test Guideline 204
GLP: yes

NOEC: 0,000538 mg/l
Exposure time: 32 d
Species: Pimephales promelas (fathead minnow)
Method: EPA OPP 72.5
GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,000056 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 202
GLP: yes

M-Factor (Chronic aquatic toxicity) : 10.000

Toxicity to soil dwelling organisms : LD50: ca.
3300 mg/kg dry weight (d.w.)
Species: Eisenia fetida (earthworms)

Toxicity to terrestrial organisms : LD50: 0,36 µg/bee
End point: Acute oral toxicity
Species: Apis mellifera (bees)

LD50: 0,070 µg/bee
End point: Acute contact toxicity
Species: Apis mellifera (bees)

LD50: 13,3 mg/kg
Species: Colinus virginianus (Bobwhite quail)

LD50: 75,6 mg/kg
Species: Anas platyrhynchos (Mallard duck)

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

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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 aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 3,5 mg/l
Exposure time: 48 h
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 microorganisms : EC50 (activated sludge): 500 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 1,65 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Remarks: Based on data from similar materials

NOEC: 1,18 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Remarks: Based on data from similar materials

Toxicity to soil dwelling organisms : LC50: 1.000 mg/kg
Exposure time: 14 d
Species: Eisenia fetida (earthworms)
Method: OECD Test Guideline 207

Toxicity to terrestrial organisms : LD50: 1.356 mg/kg
Exposure time: 14 d
Species: Colinus virginianus (Bobwhite quail)
Method: OECD Test Guideline 223

Ecotoxicology Assessment

Chronic aquatic toxicity : May cause long lasting harmful effects to aquatic life.

2-ethylhexan-1-ol:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 17,1 - 28,2 mg/l
Exposure time: 96 h

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| | | |
|---|---|---|
| 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 |

12.2 Persistence and degradability

Product:

Biodegradability : Remarks: Product contains minor amounts of not readily biodegradable components, which may not be degradable in waste water treatment plants.

Components:

Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

Biodegradability : Result: Inherently biodegradable.
Biodegradation: 58,6 %
Exposure time: 28 d
Method: OECD Test Guideline 301F
Remarks: Based on data from similar materials

chlorpyrifos (ISO):

Biodegradability : Result: Not readily biodegradable.

calcium dodecylbenzenesulphonate:

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

2-ethylhexan-1-ol:

Biodegradability : Result: Readily biodegradable.

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: No data is available on the product itself.

Components:

Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

Partition coefficient: n-octanol/water : log Pow: 1,99 - 18,02
Method: QSAR

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chlorpyrifos (ISO):

Bioaccumulation : Species: Oncorhynchus mykiss (rainbow trout)
Bioconcentration factor (BCF): 1.375
Remarks: The product may be accumulated in organisms.
See section 9 for octanol-water partition coefficient.

Partition coefficient: n-octanol/water : log Pow: 4,7

calcium dodecylbenzenesulphonate:

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

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)

12.4 Mobility in soil

Product:

Distribution among environmental compartments : Remarks: No data is available on the product itself.

Components:

chlorpyrifos (ISO):

Distribution among environmental compartments : Koc: 5509 ml/g, log Koc: 3,74
Kd: 126,6 ml/g
Remarks: Low mobility in soil

Stability in soil :

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components consid-

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|----------------|------------------------------|-------------------------|--|

ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

Product:

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

| | |
|------------------------|---|
| Product | : 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. |

SECTION 14: Transport information

14.1 UN number or ID number

| | |
|------|-----------|
| ADN | : UN 3018 |
| ADR | : UN 3018 |
| RID | : UN 3018 |
| IMDG | : UN 3018 |
| IATA | : UN 3018 |

14.2 UN proper shipping name

| | |
|------|--|
| ADN | : ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC (Chlorpyrifos, Solvent naphtha (petroleum), heavy arom.) |
| ADR | : ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC (Chlorpyrifos, Solvent naphtha (petroleum), heavy arom.) |
| RID | : ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC (Chlorpyrifos, Solvent naphtha (petroleum), heavy arom.) |
| IMDG | : ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC |

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IATA : (Chlorpyrifos, Solvent naphtha (petroleum), heavy arom.)
: Organophosphorus pesticide, liquid, toxic
(Chlorpyrifos, Solvent naphtha (petroleum), heavy arom.)

14.3 Transport hazard class(es)

| | Class | Subsidiary risks |
|-------------|-------|------------------|
| ADN | : 6.1 | |
| ADR | : 6.1 | |
| RID | : 6.1 | |
| IMDG | : 6.1 | |
| IATA | : 6.1 | |

14.4 Packing group

ADN
Packing group : III
Classification Code : T6
Hazard Identification Number : 60
Labels : 6.1

ADR
Packing group : III
Classification Code : T6
Hazard Identification Number : 60
Labels : 6.1
Tunnel restriction code : (E)

RID
Packing group : III
Classification Code : T6
Hazard Identification Number : 60
Labels : 6.1

IMDG
Packing group : III
Labels : 6.1
EmS Code : F-A, S-A

IATA (Cargo)
Packing instruction (cargo aircraft) : 663
Packing instruction (LQ) : Y642
Packing group : III
Labels : Toxic

IATA (Passenger)
Packing instruction (passenger aircraft) : 655
Packing instruction (LQ) : Y642
Packing group : III
Labels : Toxic

14.5 Environmental hazards

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ADN

Environmentally hazardous : yes

ADR

Environmentally hazardous : yes

RID

Environmentally hazardous : yes

IMDG

Marine pollutant : yes

IATA (Passenger)

Environmentally hazardous : yes

IATA (Cargo)

Environmentally hazardous : yes

14.6 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.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

| | |
|--|--|
| REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) | : Conditions of restriction for the following entries should be considered: Number on list 75, 3 If you intend to use this product as tattoo ink, please contact your vendor. |
| REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). | : Not applicable |
| Regulation (EC) on substances that deplete the ozone layer | : Not applicable |
| Regulation (EU) 2019/1021 on persistent organic pollutants (recast) | : Not applicable |
| Regulation (EU) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals | : chlorpyrifos (ISO) |
| REACH - List of substances subject to authorisation (Annex XIV) | : Not applicable |

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Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

E1 ENVIRONMENTAL HAZARDS

34 Petroleum products: (a) gasolines and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams), (d) heavy fuel oils (e) alternative fuels serving the same purposes and with similar properties as regards flammability and environmental hazards as the products referred to in points (a) to (d)

Other regulations:

When evaluating a workplace, measures must be taken to ensure that employees are not exposed to conditions that may pose a risk during pregnancy or breastfeeding (cf. The Danish Working Environment Authority's Executive Order on The Performance of Work)

Young people under the age of 18 are not allowed to use or be exposed to the product professionally. Young people above the age of 15 are, however, except from this rule if the product is a necessary part of their education.

The substance/mixture is subject to the provisions of BEK nr. 1795 of 18/12/2015 (as amended) "Executive order on Measures to Protect Workers from the Risks related to Exposure to Carcinogenic Substances and Materials at Work". The work with this substance/mixture may pose a cancer risk.

: Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified

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 | : All components of this product are on the Canadian DSL |
| ENCS | : Not in compliance with the inventory |
| ISHL | : Not in compliance with the inventory |

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| | |
|-------|---|
| KECI | : On the inventory, or in compliance with the inventory |
| PICCS | : On the inventory, or in compliance with the inventory |
| IECSC | : On the inventory, or in compliance with the inventory |
| NZIoC | : Not in compliance with the inventory |
| TECI | : On the inventory, or in compliance with the inventory |

15.2 Chemical safety assessment

A chemical safety assessment is not required for this product (mixture).

SECTION 16: Other information

Full text of H-Statements

| | |
|--------|---|
| H301 | : Toxic if swallowed. |
| H302 | : Harmful if swallowed. |
| H304 | : May be fatal if swallowed and enters airways. |
| H315 | : Causes skin irritation. |
| H318 | : Causes serious eye damage. |
| H319 | : Causes serious eye irritation. |
| H332 | : Harmful if inhaled. |
| H335 | : May cause respiratory irritation. |
| H336 | : May cause drowsiness or dizziness. |
| H351 | : Suspected of causing cancer. |
| H400 | : Very toxic to aquatic life. |
| H410 | : Very toxic to aquatic life with long lasting effects. |
| H411 | : Toxic to aquatic life with long lasting effects. |
| H413 | : May cause long lasting harmful effects to aquatic life. |
| EUH066 | : Repeated exposure may cause skin dryness or cracking. |

Full text of other abbreviations

| | |
|-------------------|--|
| Acute Tox. | : Acute toxicity |
| Aquatic Acute | : Short-term (acute) aquatic hazard |
| Aquatic Chronic | : Long-term (chronic) aquatic hazard |
| Asp. Tox. | : Aspiration hazard |
| Carc. | : Carcinogenicity |
| Eye Dam. | : Serious eye damage |
| Eye Irrit. | : Eye irritation |
| Skin Irrit. | : Skin irritation |
| STOT SE | : Specific target organ toxicity - single exposure |
| 2017/164/EU | : Europe. Commission Directive 2017/164/EU establishing a fourth list of indicative occupational exposure limit values |
| DK OEL | : Denmark. Occupational Exposure Limits |
| 2017/164/EU / TWA | : Limit Value - eight hours |
| DK OEL / S | : Exposure period of 15 minutes |
| DK OEL / GV | : Long term exposure limit |

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by

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Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; 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; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the mixture:

| | |
|-------------------|------|
| Acute Tox. 3 | H301 |
| Acute Tox. 4 | H332 |
| Eye Irrit. 2 | H319 |
| Carc. 2 | H351 |
| STOT SE 3 | H336 |
| Asp. Tox. 1 | H304 |
| Aquatic Acute 1 | H400 |
| Aquatic Chronic 1 | H410 |

Classification procedure:

| |
|-------------------------------------|
| Based on product data or assessment |
| Based on product data or assessment |
| Based on product data or assessment |
| Calculation method |
| Calculation method |
| Calculation method |
| Based on product data or assessment |
| Calculation method |

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