

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

1.1. Product identifier

Product form : Mixture
Trade name : CHELAI FLOW
Product code : 2139
Type of product : Plant protection products

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

1.2.1. Relevant identified uses

Main use category : Professional use
Use of the substance/mixture : Fungicide

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

LAINCO, S.A.
Avinguda Bizet, 8-12
08191 Rubí – Barcelona
España
T +34 93 586 20 15 - F +34 93 586 20 16
lainco@lainco.es - <http://www.lainco.es>

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
Spain	Servicio de Información Toxicológica Instituto Nacional de Toxicología y Ciencias Forenses, Departamento de Barcelona	C/Merced 1 08002	+34 91 562 04 20	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin sensitisation, Category 1 H317
Carcinogenicity, Category 2 H351
Hazardous to the aquatic environment – Acute Hazard, Category 1 H400
Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

Suspected of causing cancer. May cause an allergic skin reaction. Very toxic to aquatic life.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



Signal word (CLP) :

Warning

Contains :

folpet (ISO); N-(trichloromethylthio)phthalimide; methenamine; hexamethylenetetramine

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Hazard statements (CLP)	: H317 - May cause an allergic skin reaction. H351 - Suspected of causing cancer. H400 - Very toxic to aquatic life.
Precautionary statements (CLP)	: P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P261 - Avoid breathing vapours, mist. P273 - Avoid release to the environment. P280 - Wear protective clothing, eye protection, face protection. P302+P352 - IF ON SKIN: Wash with plenty of water. P391 - Collect spillage. P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
EUH-statements	: EUH401 - To avoid risks to human health and the environment, comply with the instructions for use.
Extra phrases	: SP1 - Do not contaminate water with the product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads).

2.3. Other hazards

Other hazards which do not result in classification : Do not breathe vapour/aerosol.

Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
folpet (ISO); N-(trichloromethylthio)phthalimide	CAS-No.: 133-07-3 EC-No.: 205-088-6 EC Index-No.: 613-045-00-1	< 40	Carc. 2, H351 Acute Tox. 4 (Inhalation), H332 (ATE=1.5 mg/l/4h) Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=10)
Residues, petroleum, catalytic reformer fractionator, sulfonated polymers with formaldehyde, sodium salts	CAS-No.: 68425-94-5	< 5	Skin Irrit. 2, H315 Eye Irrit. 2, H319
fumaric acid	CAS-No.: 110-17-8 EC-No.: 203-743-0 EC Index-No.: 607-146-00-X	< 2	Eye Irrit. 2, H319
methenamine; hexamethylenetetramine	CAS-No.: 100-97-0 EC-No.: 202-905-8 EC Index-No.: 612-101-00-2	< 1	Flam. Sol. 2, H228 Skin Sens. 1, H317

Full text of H- and EUH-statements: see section 16

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SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. First aider: Pay attention to self-protection!. Get medical advice/attention if you feel unwell.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Move the affected person away from the contaminated area and into the fresh air. Give oxygen or artificial respiration if necessary.
First-aid measures after skin contact	: If skin irritation or rash occurs: Get medical advice/attention. Wash skin with plenty of water. Take off contaminated clothing and wash it before reuse.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Immediately rinse with water for a prolonged period while holding the eyelids wide open. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Do NOT induce vomiting. If unconscious place in recovery position and seek medical advice. If the person is fully conscious give him/her medically activated charcoal to drink. Never give an unconscious person anything to drink. Administer a saline laxative (sodium or magnesium sulfate or similar). Drain stomach by gastric lavage under qualified medical supervision.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation	: Irritation of the respiratory tract. Respiratory difficulties. Cough. Dyspnoea. Increase of bronchial secretions.
Symptoms/effects after skin contact	: Causes mild skin irritation. May cause sensitisation by skin contact.
Symptoms/effects after eye contact	: Eye irritation. Lacrimation. Redness.
Symptoms/effects after ingestion	: Nausea. Vomiting. Abdominal pain. Diarrhea. Intestinal colic. Cyanosis (blue coloured blood). Body temperature fall. Blood pressure drop. Change in urine composition.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Never leave the intoxicated person alone.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream. Simultaneous use of foam and water on the same surface should be avoided, as water destroys the foam.

5.2. Special hazards arising from the substance or mixture

Explosion hazard	: Prolonged exposure to fire may cause containers to rupture/explode.
Hazardous decomposition products in case of fire	: Thermal decomposition generates toxic vapours : Chlorine gases, HCl, COx, SOx, NOx, Thiophosgene, considered highly toxic by inhalation.

5.3. Advice for firefighters

Precautionary measures fire	: Keep container tightly closed and away from heat, sparks and flame. Eliminate all ignition sources if safe to do so.
Firefighting instructions	: Fight fire from safe distance and protected location. Use water spray or fog for cooling exposed containers. Prevent fire fighting water from entering the environment. Exercise caution when fighting any chemical fire.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
Other information	: On exposure to high temperature, may decompose, releasing toxic gases. Do not allow run-off from fire-fighting to enter drains or water courses. Dispose of contaminated materials in accordance with current regulations.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Notify authorities if product enters sewers or public waters. Stop leak if safe to do so. Avoid contact with skin and eyes. Do not handle until all safety precautions have been read and understood. Remove ignition sources. Avoid static electricity discharges. Do not spray ground with water.

6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment. Wear suitable respiratory equipment.
Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Do not breathe vapours, spray.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures : Ventilate area.

6.2. Environmental precautions

Avoid release to the environment. Notify authorities if product enters sewers or public waters. Contact local authorities if product pollutes soil or vegetation.

6.3. Methods and material for containment and cleaning up

For containment : Contain the spilled material by bunding (product is hazardous for the environment). Absorb spilled material with sand or earth.
Methods for cleaning up : Sweep or shovel spills into appropriate container for disposal. Notify authorities if product enters sewers or public waters.
Other information : Dispose of materials or solid residues at an authorized site. Keep away from sources of ignition - No smoking.

6.4. Reference to other sections

For further information refer to section 13. For further information refer to section 8: "Exposure controls/personal protection".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Avoid contact with skin and eyes. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Do not breathe spray, vapours. Eliminate all ignition sources if safe to do so. Wear protective clothing, eye protection, face protection. Handle carefully. Do not eat, drink or smoke when using this product. After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. Opened containers must be carefully closed and kept upright to avoid leakage. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. SPo 2 - Wash all protective clothing after use. SPo 5 - Ventilate treated the greenhouses thoroughly until spray has dried before re-entry.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Store in tightly closed, leak-proof containers. Keep in a cool, well-ventilated place away from heat.
Storage conditions : Store in a well-ventilated place. Keep cool. Store locked up. Keep out of reach of children. Keep away from food, drink and animal feedingstuffs.

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Incompatible products	: Do not mix with Bordeaux broth prepared in the field, oils or alkaline reaction products. Alkaline materials such as lime and cuprous carbon will reduce fungicide material.
Incompatible materials	: Keep only in the original container in a cool, well-ventilated place away from combustible materials.
Maximum storage period	: 2 years
Storage temperature	: Store at ambient temperature
heat and ignition sources	: Protect from heat and direct sunlight. No naked flames, sparks, and do not smoke.
Storage area	: Store in a well-ventilated place. Store away from heat.
Special rules on packaging	: Keep only in original container.
Packaging materials	: Keep only in original packaging.

7.3. Specific end use(s)

No special requirements.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station. The workplace should be equipped with an emergency shower and eye-rinsing facility. Always wash hands after handling the product.

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Safety glasses

Eye protection			
Type	Field of application	Characteristics	Standard
Safety goggles		With side shields	EN 166

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

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Skin and body protection	
Type	Standard
Protective clothing	EN 14605

Hand protection:

Protective gloves

Hand protection					
Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Reusable gloves					EN ISO 374

8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Respiratory protection			
Device	Filter type	Condition	Standard
Breathing apparatus	Type A1P2		

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment. Do not allow to enter drains or water courses. Notify authorities if product enters sewers or public waters. Prevent soil and water pollution. Discharge to atmosphere in large quantities should be avoided.

Consumer exposure controls:

Exercise customary precautions when handling chemicals.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: white to pale beige.
Odour	: Slightly solvent-like organic.
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: Not available
Boiling point	: ≈ 96 °C
Flammability	: Non flammable.
Explosive properties	: Does not present explosive properties. (Test method EU A.14).
Oxidising properties	: Does not present oxidising properties.
Explosive limits	: Not available
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: > 80 °C (Test method EU A.9)
Auto-ignition temperature	: > 400 °C (Test method EU A.15)
Decomposition temperature	: Not available
pH	: 5.1 – 5.3 (1% Aqueous solution) (CIPAC MT 75.3)
Viscosity, kinematic	: 3320 mm ² /s (20°C) (OECD 114 method)
Viscosity, dynamic	: 4180 mPa.s (20°C) (CIPAC MT 22)
Solubility	: Water: It forms a stable suspension in water.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available

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Density	: 1.25 – 1.27 g/ml (Test method EU A.3)
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

Viscosity, kinematic	: 1500 mm ² /s (40°C) (OECD 114 method)
Viscosity, dynamic	: 1890 mPa.s (40°C) (CIPAC MT 22)
Surface tension	: 49,5 mN/m (dilution 0.1% v/v) (Test method EU A.5)
Surface tension	: 44 mN/m (dilution 0.35% v/v) (Test method EU A.5)

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions. Folpet is slowly hydrolysed with moisture at room temperature and quickly hydrolysed when in contact with alkaline reaction substances.

10.3. Possibility of hazardous reactions

Thermal decomposition generates toxic vapours : Chlorine gases, HCl, COx, SOx, NOx, Thiophosgene, considered highly toxic by inhalation.

10.4. Conditions to avoid

Direct sunlight. Excessive heat. Do not mix with : Alkalis, alkaline mixtures. Folpet is slowly hydrolysed with moisture at room temperature and quickly hydrolysed when in contact with alkaline reaction substances. Keep away from sources of ignition.

10.5. Incompatible materials

Do not mix with Bordeaux broth prepared in the field, oils or alkaline reaction products.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition may produce : Thiophosgene, considered highly toxic by inhalation.

SECTION 11: Toxicological information

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

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified.

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LD50 oral rat	> 2000 mg/kg bodyweight
LD50 dermal rabbit	> 2000 mg/kg bodyweight
LC50 Inhalation - Rat (Vapours)	> 2.13 mg/l/4h
fumaric acid (110-17-8)	
LD50 dermal rabbit	20000 mg/kg bodyweight Animal: rabbit, Animal sex: female, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)

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fumaric acid (110-17-8)	
LC50 Inhalation - Rat	> 1306 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), Guideline: EU Method B.2 (Acute Toxicity (Inhalation)), Remarks on results: other:

methenamine; hexamethylenetetramine (100-97-0)	
LD50 oral rat	> 20000 mg/kg bodyweight Animal: rat
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal)), Remarks on results: other:

Skin corrosion/irritation	: Not classified pH: 5.1 – 5.3 (1% Aqueous solution) (CIPAC MT 75.3)
Serious eye damage/irritation	: Not classified pH: 5.1 – 5.3 (1% Aqueous solution) (CIPAC MT 75.3)
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Folpet not mutagenic
Carcinogenicity	: Suspected of causing cancer.
Additional information	: In two years feeding study duodenal tumours were founded in mice after repeated high doses administration. NOAEL was 450 ppm. There was no evidence of carcinogenicity in long-term studies with rats. Information about these tumour mechanisms sets a threshold for duodenal tumours and indicates that this type of tumour is not relevant in the risk assessment for humans at the probable exposure levels.

methenamine; hexamethylenetetramine (100-97-0)	
NOAEL (chronic, oral, animal/male, 2 years)	1500 – 2000 mg/kg bodyweight Animal: rat, Animal sex: male
NOAEL (chronic, oral, animal/female, 2 years)	2000 – 2500 mg/kg bodyweight Animal: rat, Animal sex: female

Reproductive toxicity	: Not classified (Nonteratogenic in animal experiments. No effect on fertility or reproductive efficacy. Embryocidal. Non genotoxic.)
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fumaric acid (110-17-8)	
LOAEL (animal/female, F1)	20 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 416 (Two-Generation Reproduction Toxicity Study), Remarks on results: other:

STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified

fumaric acid (110-17-8)	
NOAEL (oral, rat, 90 days)	≈ 600 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 452 (Chronic Toxicity Studies)

Aspiration hazard	: Not classified
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Viscosity, kinematic	3320 mm ² /s (20°C) (OECD 114 method)

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: Very toxic to aquatic life.
Hazardous to the aquatic environment, short-term (acute)	: Very toxic to aquatic life.
Hazardous to the aquatic environment, long-term (chronic)	: Not classified
Not rapidly degradable	

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folpet (ISO); N-(trichloromethylthio)phthalimide (133-07-3)	
LC50 - Fish [1]	98 µg/l <i>Salmo trutta fario</i> (L) (freshwater trout)
EC50 - Crustacea [1]	1 – 10 mg/l <i>Daphnia magna</i> (Water flea)
EC50 72h - Algae [1]	> 10 mg/l <i>Scenedesmus subspicatus</i>

fumaric acid (110-17-8)	
LC50 - Fish [1]	> 100 mg/l Test organisms (species): <i>Danio rerio</i> (previous name: <i>Brachydanio rerio</i>)
EC50 - Crustacea [1]	> 100 mg/l Test organisms (species): <i>Daphnia magna</i>
EC50 72h - Algae [1]	> 100 mg/l Test organisms (species): <i>Pseudokirchneriella subcapitata</i> (previous names: <i>Raphidocelis subcapitata</i> , <i>Selenastrum capricornutum</i>)

methenamine; hexamethylenetetramine (100-97-0)	
LC50 - Fish [1]	41 g/l Test organisms (species): <i>Lepomis macrochirus</i>
LC50 - Fish [2]	49 g/l Test organisms (species): <i>Cyprinodon variegatus</i>

12.2. Persistence and degradability

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Persistence and degradability	Folpet presents low to very low persistence. . Readily biodegradable.

12.3. Bioaccumulative potential

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Bioaccumulative potential	Folpet does not accumulate in animal tissues or plants. In plants and animals its main metabolites are phthalimide, phthalic acid and phthalimic acid.

12.4. Mobility in soil

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Ecology - soil	The product does not leach to drainage.

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions. If recycling is not possible, eliminate in accordance with local valid waste disposal regulations.
Sewage disposal recommendations	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Disposal must be done according to official regulations. Empty containers should be taken for recycling, recovery or waste in accordance with local regulation. Avoid release to the environment. Do not dispose of the packaging without first carrying out the necessary cleaning. Completely empty the packaging prior to decontamination. Rinse empty containers with water three times.

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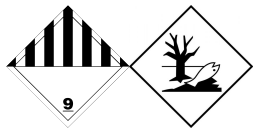
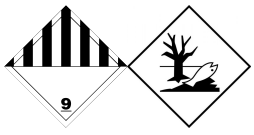
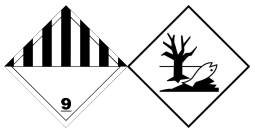
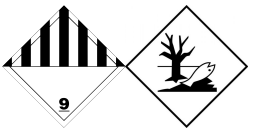

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Additional information	: Clean up even minor leaks or spills if possible without unnecessary risk. Do not re-use empty containers. Do not contaminate water with the product or its container. Do not clean application equipment near surface water.
European List of Waste (LoW) code	: 02 01 08* - agrochemical waste containing dangerous substances 15 01 10* - packaging containing residues of or contaminated by dangerous substances

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
UN 3082	UN 3082	UN 3082	UN 3082	UN 3082
14.2. UN proper shipping name				
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Folpet (ISO))	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Folpet (ISO))	Environmentally hazardous substance, liquid, n.o.s. (Folpet (ISO))	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Folpet (ISO))	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Folpet (ISO))
Transport document description				
UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Folpet (ISO)), 9, III, (-)	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Folpet (ISO)), 9, III, MARINE POLLUTANT	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Folpet (ISO)), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Folpet (ISO)), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Folpet (ISO)), 9, III
14.3. Transport hazard class(es)				
9	9	9	9	9
				
14.4. Packing group				
III	III	III	III	III
14.5. Environmental hazards				
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes
No supplementary information available				

14.6. Special precautions for user

Overland transport

Classification code (ADR)	: M6
Special provisions (ADR)	: 274, 335, 375, 601
Limited quantities (ADR)	: 5I
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P001, IBC03, LP01, R001
Special packing provisions (ADR)	: PP1
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: T4
Portable tank and bulk container special provisions (ADR)	: TP1, TP29
Tank code (ADR)	: LGBV
Vehicle for tank carriage	: AT

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Transport category (ADR) : 3
Special provisions for carriage - Packages (ADR) : V12
Special provisions for carriage - Loading, unloading and handling (ADR) : CV13
Hazard identification number (Kemler No.) : 90
Orange plates :



Tunnel restriction code (ADR) : -

Transport by sea

Special provisions (IMDG) : 274, 335, 969
Limited quantities (IMDG) : 5 L
Excepted quantities (IMDG) : E1
Packing instructions (IMDG) : LP01, P001
Special packing provisions (IMDG) : PP1
IBC packing instructions (IMDG) : IBC03
Tank instructions (IMDG) : T4
Tank special provisions (IMDG) : TP1, TP29
EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-F
Stowage category (IMDG) : A

Air transport

PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y964
PCA limited quantity max net quantity (IATA) : 30kgG
PCA packing instructions (IATA) : 964
PCA max net quantity (IATA) : 450L
CAO packing instructions (IATA) : 964
CAO max net quantity (IATA) : 450L
Special provisions (IATA) : A97, A158, A197, A215
ERG code (IATA) : 9L

Inland waterway transport

Classification code (ADN) : M6
Special provisions (ADN) : 274, 335, 375, 601
Limited quantities (ADN) : 5 L
Excepted quantities (ADN) : E1
Carriage permitted (ADN) : T
Equipment required (ADN) : PP
Number of blue cones/lights (ADN) : 0

Rail transport

Classification code (RID) : M6
Special provisions (RID) : 274, 335, 375, 601
Limited quantities (RID) : 5L
Excepted quantities (RID) : E1
Packing instructions (RID) : P001, IBC03, LP01, R001
Special packing provisions (RID) : PP1
Mixed packing provisions (RID) : MP19
Portable tank and bulk container instructions (RID) : T4
Portable tank and bulk container special provisions (RID) : TP1, TP29
Tank codes for RID tanks (RID) : LGBV
Transport category (RID) : 3
Special provisions for carriage – Packages (RID) : W12
Special provisions for carriage - Loading, unloading and handling (RID) : CW13, CW31
Colis express (express parcels) (RID) : CE8
Hazard identification number (RID) : 90

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14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Seveso Directive (Disaster Risk Reduction)

Seveso Additional information : Section 'E' - E1 Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1

Explosives Precursors Regulation (2019/1148)

Contains substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

ANNEX II REPORTABLE EXPLOSIVES PRECURSORS

List of substances on their own or in mixtures or in substances for which suspicious transactions and significant disappearances and thefts are to be reported to the relevant national contact point within 24 hours.

Name	CAS-No.	Combined Nomenclature code (CN)	Combined Nomenclature code for mixture without constituents which would determine classification under another CN code
Hexamine	100-97-0	ex 2933 69 40	ex 3824 99 93

Please see https://ec.europa.eu/home-affairs/system/files/2021-11/list_of_competent_authorities_and_national_contact_points_en.pdf

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

Spain

Spanish National Regulations : Spanish Royal Decree 656/2017 and its modifications: Taking into account the type of container in which the product is marketed, it is included in the scope of the Complementary Technical Instruction MIE APQ-10 «Storage in mobile containers».

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
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Abbreviations and acronyms:	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

Data sources

: Supplier's safety documents. REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. ECHA (European Chemicals Agency).

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Full text of H- and EUH-statements:	
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Carc. 2	Carcinogenicity, Category 2
EUH401	To avoid risks to human health and the environment, comply with the instructions for use.
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Sol. 2	Flammable solids, Category 2
H228	Flammable solid.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H351	Suspected of causing cancer.
H400	Very toxic to aquatic life.
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1

The classification complies with : ATP 12

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.