Agrocelhone FE

Safety Data Sheet

according to Regulation (EC) No. 453/2010

Date of issue: 16/09/2014 Revision date: 13/09/2014 Supersedes: 06/06/2011 Version: 3.0

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

1.1. Product identifier

Product form : Mixture

Trade name : Agrocelhone FE

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

1.2.1. Relevant identified uses

Industrial/Professional use spec : Industrial
For professional use only

Use of the substance/mixture : Soil disinfectant and fungicide nematicide action.
Emulsifiable concentrate (EC).

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

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Pol. Ind. Castilla – Vial 5, s/n
46380 Cheste - Spain
T +34 96 251 10 00 - F +34 96 251 14 61
aglsa@arrakis.es - www.agroquimicosdelevante.es

1.4. Emergency telephone number

Emergency number : +34 96 251 10 00

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Acute Tox. 3 (Dermal)	H311
Acute Tox. 2 (Inhalation)	H330
Acute Tox. 3 (Oral)	H301
Asp. Tox. 1	H304
Flam. Liq. 3	H226
Eye Irrit. 2	H319
Skin Irrit. 2	H315
STOT SE 3	H335
Skin Sens. 1	H317
Aquatic Acute 1	H400
Aquatic Chronic 1	H410

Full text of H-phrases: see section 16

Classification according to Directive 67/548/EEC or 1999/45/EC

T+; R26

T; R24/25

Xn; R65

Xi; R36/37/38

R43

N; R50/53

R10

Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP) :

GHS06 GHS08 GHS02 GHS09

Signal word (CLP) : Danger

Hazard statements (CLP) : H226 - Flammable liquid and vapour
H301 - Toxic if swallowed
H304 - May be fatal if swallowed and enters airways
H311 - Toxic in contact with skin
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H330 - Fatal if inhaled
H335 - May cause respiratory irritation
H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements (CLP) : P273 - Avoid release to the environment
P280 - Wear eye protection, protective gloves, face protection, protective clothing
P301+P310 - IF SWALLOWED: immediately call a POISON CENTER or doctor/physician
P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P405 - Store locked up
P501 - Dispose of contents/container to an authorised waste collection point.

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Directive 67/548/EEC
trichloronitromethane, chloropicrin	(CAS No) 76-06-2 (EC no) 200-930-9 (EC index no) 610-001-00-3	50 - 60	Xn; R22 T+; R26 Xi; R36/37/38
1,3-dichloropropene	(CAS No) 542-75-6 (EC no) 208-826-5 (EC index no) 602-030-00-5	30 - 40	T; R24/25 Xn; R20 Xn; R65 Xi; R36/37/38 R43 N; R50/53 R10

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
trichloronitromethane, chloropicrin	(CAS No) 76-06-2 (EC no) 200-930-9 (EC index no) 610-001-00-3	50 - 60	Acute Tox. 2 (Inhalation), H330 Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 STOT SE 3, H335 Skin Irrit. 2, H315
1,3-dichloropropene	(CAS No) 542-75-6 (EC no) 208-826-5 (EC index no) 602-030-00-5	30 - 40	Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Oral), H301 Asp. Tox. 1, H304 Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Eye Irrit. 2, H319 Skin Irrit. 2, H315 STOT SE 3, H335 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of R- and H-phrases: see section 16

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. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor/physician if you feel unwell.

First-aid measures after skin contact : Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention. Specific treatment.

First-aid measures after eye contact : Ensure adequate flushing of eyes by separating eyelids with the fingers. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician. Specific treatment.

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

Symptoms/injuries : Weakness. Cramps. Dizziness. Headaches. Abdominal pain, nausea.

Symptoms/injuries after inhalation : May cause an allergic skin reaction. May cause respiratory irritation.

Symptoms/injuries after skin contact : Repeated exposure to this material can result in absorption through skin causing significant health hazard. Toxic in contact with skin. Causes skin irritation. Cyanosis may occur (lips and fingernails turn blue).

Symptoms/injuries after eye contact : Causes serious eye irritation.

Symptoms/injuries after ingestion : Toxic if swallowed. Swallowing a small quantity of this material will result in serious health hazard. May be fatal if swallowed and enters airways.

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

Abdominal pain, nausea. Treat symptomatically. Eye irritation. Manage aqueous solution of activated carbon and a saline cathartic of sodium sulfate. Control hydroelectrolytic. Irritation of the respiratory tract and the other mucous membranes. Prolonged medical observation may be indicated.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Flammable liquid and vapour.

Explosion hazard : May form flammable/explosive vapour-air mixture.

Hazardous decomposition products in case of fire : Thermal decomposition generates : Toxic vapours.

5.3. Advice for firefighters

Precautionary measures fire : Exercise caution when fighting any chemical fire.

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Remove ignition sources. No naked lights. No smoking.

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. Collect all waste in suitable and labelled containers and dispose according to local legislation.

6.4. Reference to other sections

See Heading 8. Exposure controls / Personal protection equipment.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Handle empty containers with care because residual vapours are flammable.

Precautions for safe handling : Use only outdoors or in a well-ventilated area. Provide good ventilation in process area to prevent formation of vapour. No naked lights. No smoking. Avoid breathing vapours. Take precautionary measures against static discharge. Use only non-sparking tools.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands, forearms and face thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Take precautionary measures against static discharges. Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof lighting equipment.

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Heat sources. Keep container tightly closed.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight. Heat sources. Sparks.

7.3. Specific end use(s)

See section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

trichloronitromethane, chloropicrin (76-06-2)		
United Kingdom	Local name	Trichloronitromethane
United Kingdom	WEL TWA (mg/m³)	0,68 mg/m³
United Kingdom	WEL TWA (ppm)	0,1 ppm
United Kingdom	WEL STEL (mg/m³)	2,1 mg/m³
United Kingdom	WEL STEL (ppm)	0,3 ppm

8.2. Exposure controls

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : Wear suitable gloves resistant to chemical penetration.

Eye protection : Chemical goggles or safety glasses.

Skin and body protection : Wear suitable protective clothing. Chemical resistant apron and boots.

Respiratory protection : Wear respiratory protection. Where excessive vapour may result, wear approved mask.

Other information : Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : Heavy liquid.

Colour : Moderate to chloroform and tear gas.

Odour : Characteristic.

Odour threshold : No data available

pH : 4,6 (1%)

Relative evaporation rate (butyl acetate=1) : No data available

Melting point : No data available

Freezing point : No data available

Boiling point : No data available

Flash point : No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Flammability (solid, gas) : Flammable liquid and vapour

Vapour pressure : No data available

Vapour density : No data available

Relative density	:	No data available
Density	:	1,44 g/cm³ (25 ºC)
Solubility	:	No data available
Log Pow	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	No data available
Explosive properties	:	Not flammable.
Oxidising properties	:	No data available
Explosive limits	:	No data available

9.2. Other information

Other properties : May be corrosive to some metals. magnesium. aluminium. Alloys of aluminium and magnesium.

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Flammable liquid and vapour. May form flammable/explosive vapour-air mixture. Stable under use and storage conditions as recommended in section 7.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame. Heat. Sparks.

10.5. Incompatible materials

Strong acids. Strong bases. Organic amines.

10.6. Hazardous decomposition products

Fumes. Carbon monoxide. Carbon dioxide. May release flammable gases.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Toxic in contact with skin. Fatal if inhaled. Toxic if swallowed.

trichloronitromethane, chloropicrin (76-06-2)	
LD50 oral rat	250 mg/kg bodyweight
LC50 inhalation rat (mg/l)	0,016 mg/l/4h

1,3-dichloropropene (542-75-6)	
LD50 oral rat	150 mg/kg bodyweight
LD50 oral	152 mg/kg Colinus virginianus
LD50 dermal rat	1200 mg/kg
LC50 inhalation rat (mg/l)	2,7 - 3,07 mg/l/4h
NOEL, air, Inhalation, rat	0.099 mg/l (2 years)
NOEL, air, Inhalation, rat	0.05 mg/l (90 days)
NOEL, air, Inhalation, mouse	0.025 mg/l (2 years)

Skin corrosion/irritation	:	Causes skin irritation. pH: 4,6 (1%)
Serious eye damage/irritation	:	Causes serious eye irritation. pH: 4,6 (1%)
Respiratory or skin sensitisation	:	May cause an allergic skin reaction.
Germ cell mutagenicity	:	Not classified
Carcinogenicity	:	Not classified
Reproductive toxicity	:	Not classified
Specific target organ toxicity (single exposure)	:	May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	:	Not classified
Aspiration hazard	:	May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Avoid release to the environment.

Ecology - water : Very toxic to aquatic life with long lasting effects.

trichloronitromethane, chloropicrin (76-06-2)	
LC50 fishes	0,91 mg/l 3 h
TLM fish 1	0,168 mg/l

1,3-dichloropropene (542-75-6)	
LC50 fishes	9 mg/l Leuciscus idus
EC50 Daphnia	6,2 mg/l 48 h
LC50 fish 2	3,9 mg/l Salmo gairnerii

12.2. Persistence and degradability

Agrocelhone FE	
Persistence and degradability	May cause long-term adverse effects in the environment.

trichloronitromethane, chloropicrin (76-06-2)	
Persistence and degradability	Degradation in the atmosphere is fast. CO2 is completely degraded by photolysis. DT50 = 4 days (Sunlight).

1,3-dichloropropene (542-75-6)	
Persistence and degradability	The soil degradation is fast. Leached in: Surface water, Sandy soils.

12.3. Bioaccumulative potential

Agrocelhone FE	
Bioaccumulative potential	Not established.

trichloronitromethane, chloropicrin (76-06-2)	
Log Pow	2,4

1,3-dichloropropene (542-75-6)	
Log Pow	1,82

12.4. Mobility in soil

Agrocelhone FE	
Ecology - soil	Not established.

12.5. Results of PBT and vPvB assessment

Agrocelhone FE
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

Other adverse effects : Not classified as dangerous for the ozone layer.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Packaging which cannot be decontaminated should be disposed of like the material. Face down, outdoors, min. 4 days.

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to hazardous or special waste collection point.

Additional information : Handle empty containers with care because residual vapours are flammable.

Ecology - waste materials : Avoid release to the environment. Hazardous waste due to toxicity.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA

14.1. UN number

UN-No. (ADR) : 2929

UN-No. (IMDG) : 2929

UN-No.(IATA) : 2929

14.2. UN proper shipping name

Proper Shipping Name (ADR) : TOXIC LIQUID, FLAMMABLE, ORGANIC, N.O.S.

Proper Shipping Name (IMDG) : TOXIC LIQUID, FLAMMABLE, ORGANIC, N.O.S.

Proper Shipping Name (IATA) : Toxic liquid, flammable, organic, n.o.s.

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 6.1 (3)

Hazard labels (ADR) : 6.1, 3

:

IMDG

Transport hazard class(es) (IMDG) : 6.1 (3)

Danger labels (IMDG) : 6.1, 3

:

IATA

Transport hazard class(es) (IATA) : 6.1 (3)

Hazard labels (IATA) : 6.1, 3

:

14.4. Packing group

Packing group (ADR) : II

Packing group (IMDG) : II

Packing group (IATA) : II

14.5. Environmental hazards

Dangerous for the environment : Yes

Marine pollutant : Yes

Other information : No supplementary information available

14.6. Special precautions for user

No supplementary information available

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

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

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008	Agrocelhone FE
40. Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.	Agrocelhone FE

Contains no REACH candidate substance

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Data sources : 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.

Abbreviations and acronyms : PBT: persistent, bioaccumulative and toxic. vPvB: very persistent and very bioaccumulative.

Other information : None.

Full text of R-, H- and EUH-phrases:

Acute Tox. 2 (Inhalation)	Acute toxicity (inhal.), Category 2
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Sensitisation — Skin, category 1
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H226	Flammable liquid and vapour
H301	Toxic if swallowed
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H311	Toxic in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H330	Fatal if inhaled
H332	Harmful if inhaled
H335	May cause respiratory irritation
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
R10	Flammable
R20	Harmful by inhalation
R22	Harmful if swallowed
R24/25	Toxic in contact with skin and if swallowed
R26	Very toxic by inhalation
R36/37/38	Irritating to eyes, respiratory system and skin
R43	May cause sensitisation by skin contact
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R65	Harmful: may cause lung damage if swallowed
N	Dangerous for the environment
T	Toxic
T+	Very toxic
Xi	Irritant
Xn	Harmful

SDS EU (REACH Annex II)

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