



Agrocelhone C

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 : Substance
Generic name : Chloropicrin
Formula : CCl₃NO₂

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 fungicide.
Liquid fumigant injection (AL).

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Agroquímicos de Levante, S.A.
Pol. Ind. Castilla – Vial 5, s/n
46380 Cheste - Spain
T +34 96 251 10 00 - F +34 96 251 14 61
aqlsa@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. 2 (Inhalation) H330
Acute Tox. 4 (Oral) H302
Eye Irrit. 2 H319
Skin Irrit. 2 H315
STOT SE 3 H335

Full text of H-phrases: see section 16

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

T+; R26
Xn; R22
Xi; R36/37/38

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

Signal word (CLP) : Danger
Hazard statements (CLP) : H302 - Harmful if swallowed
H315 - Causes skin irritation
H319 - Causes serious eye irritation
H330 - Fatal if inhaled
H335 - May cause respiratory irritation
Precautionary statements (CLP) : P280 - Wear eye protection, protective gloves, face protection, protective clothing

Agrocelhone C

Safety Data Sheet

according to Regulation (EC) No. 453/2010

P302+P352 - IF ON SKIN: Wash with plenty of soap and water
P304+P340 - IF INHALED: remove victim to fresh air and keep at rest in a position comfortable for breathing
P312 - Call a POISON CENTER/doctor/physician if you feel unwell
P405 - Store locked up
P501 - Dispose of contents/container to hazardous or special 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

Generic name : Chloropicrin

Name	Product identifier	%
trichloronitromethane, chloropicrin	(CAS No) 76-06-2 (EC no) 200-930-9 (EC index no) 610-001-00-3	100

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

3.2. Mixture

Not applicable

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	: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation 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. Obtain emergency medical attention. Call a POISON CENTER/doctor/physician if you feel unwell.

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 respiratory irritation. Fatal if inhaled.
Symptoms/injuries after skin contact	: Causes skin irritation. Cyanosis may occur (lips and fingernails turn blue).
Symptoms/injuries after eye contact	: Causes serious eye irritation.
Symptoms/injuries after ingestion	: Swallowing a small quantity of this material will result in serious health hazard.

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	: Not flammable.
Hazardous decomposition products in case of fire	: Thermal decomposition generates : Toxic vapours. phosgene, carbonyl chloride.

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	: Extinguish all ignition sources.
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Agrocelhone C

Safety Data Sheet

according to Regulation (EC) No. 453/2010

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

Precautions for safe handling : Use only outdoors or in a well-ventilated area. Provide good ventilation in process area to prevent formation of vapour. Avoid breathing vapours.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands, forearms and face thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

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.

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/m ³)	0,68 mg/m ³
United Kingdom	WEL TWA (ppm)	0,1 ppm
United Kingdom	WEL STEL (mg/m ³)	2,1 mg/m ³
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. Use nitrile rubber gloves.

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.

Molecular mass : 164,4 g/mol

Colour : Slightly colored.

Odour : Irritating. strong.

Odour threshold : No data available

pH : 5,55 (1%)

Agrocelhone C

Safety Data Sheet

according to Regulation (EC) No. 453/2010

Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: -64 °C
Freezing point	: No data available
Boiling point	: 112 °C
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: 234 °C
Flammability (solid, gas)	: Not flammable.
Vapour pressure	: 19 mm Hg (20 °C)
Vapour density	: No data available
Relative density	: No data available
Density	: 1,7 g/cm ³ (25 °C)
Relative gas density	: 5,7 (air=1)
Solubility	: Water: 0,02 %
Log Pow	: 2,4
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: Not explosive.
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

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. Sources of ignition.

10.5. Incompatible materials

Strong acids. Strong bases. aluminium. Magnesium. Alloys of aluminium and magnesium. PVC pipes or containers.

10.6. Hazardous decomposition products

Carbon dioxide. Carbon monoxide. Phosgene. nitrogen oxides (NOx) and chlorine.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Fatal if inhaled. Harmful if swallowed.
0.008 mg/l Air. : Clearly detected.
0.016 mg/l Air. : May cause tearing. Cough.
0.066 mg/l Air. : Extremely toxic. May cause tearing.
0.12 mg/l Air. : Exposure of 30 to 60 minutes can be fatal.
20-minute exposure of guinea pigs, rabbits and cats is lethal at a concentration of 0.8 mg/l Air.

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

Skin corrosion/irritation	: Causes skin irritation. pH: 5,55 (1%)
Serious eye damage/irritation	: Causes serious eye irritation. pH: 5,55 (1%)
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified

Agrocelhone C

Safety Data Sheet

according to Regulation (EC) No. 453/2010

Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Potential adverse human health effects and symptoms	: Harmful if swallowed.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Avoid release to the environment. Not toxic to bees.

Chloropicrin	
LC50 fishes	0,168 mg/l 48 h
EC50 Daphnia	0,91 mg/l 3 h

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

12.2. Persistence and degradability

Chloropicrin	
Persistence and degradability	Degradation in the atmosphere is fast. CO ₂ is completely degraded by photolysis. DT50 = 4 days (Sunlight).

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

12.3. Bioaccumulative potential

Chloropicrin	
Log Pow	2,4
Bioaccumulative potential	Not established.

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

12.4. Mobility in soil

Chloropicrin	
Ecology - soil	Not established.

12.5. Results of PBT and vPvB assessment

Chloropicrin	
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. Handle empty containers with care because residual vapours are flammable. 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.
Ecology - waste materials	: Hazardous waste due to toxicity. Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA

14.1. UN number

UN-No. (ADR)	: 1580
UN-No. (IMDG)	: 1580
UN-No.(IATA)	: 1580

Agrocelhone C

Safety Data Sheet

according to Regulation (EC) No. 453/2010

14.2. UN proper shipping name

Proper Shipping Name (ADR) : CHLOROPICRIN
Proper Shipping Name (IMDG) : CHLOROPICRIN
Proper Shipping Name (IATA) : Chloropicrin

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 6.1
Hazard labels (ADR) : 6.1



IMDG

Transport hazard class(es) (IMDG) : 6.1
Danger labels (IMDG) : 6.1



IATA

Transport hazard class(es) (IATA) : 6.1
Hazard labels (IATA) : 6.1



14.4. Packing group

Packing group (ADR) : I
Packing group (IMDG) : I
Packing group (IATA) : I

14.5. Environmental hazards

Dangerous for the environment : No
Marine pollutant : Yes (IMDG only)
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	Chloropicrin
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Contains no REACH candidate substance

Agrocelhone C

Safety Data Sheet

according to Regulation (EC) No. 453/2010

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

Indication of changes:

Revision - See : *.

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. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H330	Fatal if inhaled
H335	May cause respiratory irritation
R22	Harmful if swallowed
R26	Very toxic by inhalation
R36/37/38	Irritating to eyes, respiratory system and skin
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