



# AGROTAL

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)  
Date of issue: 12/11/2018 Version: 1.0

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

#### 1.1. Product identifier

Product form : Substance  
Trade name : AGROTAL  
Chemical name : 1,3-dichloropropene  
EC Index-No. : 602-030-00-5  
EC-No. : 208-826-5  
CAS-No. : 542-75-6

#### 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 : Plant protection products  
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](mailto:aqlsa@arrakis.es) - [www.agroquimicosdelevante.es](http://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] Mixtures/Substances: SDS EU 2015: According to Regulation (EU) 2015/830 (REACH Annex II)

Flam. Liq. 3	H226
Acute Tox. 3 (Dermal)	H311
Acute Tox. 3 (Oral)	H301
Acute Tox. 4 (Inhalation)	H332
Asp. Tox. 1	H304
Eye Irrit. 2	H319
STOT SE 3	H335
Skin Irrit. 2	H315
Skin Sens. 1	H317
Aquatic Acute 1	H400
Aquatic Chronic 1	H410

Full text of hazard classes and H-statements : 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) :



GHS02

GHS06

GHS08

GHS09

Signal word (CLP)

: Danger

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Hazard statements (CLP)	: H226 - Flammable liquid and vapour. H311 - Toxic in contact with skin. H301 - Toxic if swallowed. H332 - Harmful if inhaled. H304 - May be fatal if swallowed and enters airways. H319 - Causes serious eye irritation. H335 - May cause respiratory irritation. H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H410 - Very toxic to aquatic life with long lasting effects.
Precautionary statements (CLP)	: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P261 - Avoid breathing vapours, fume. P280 - Wear eye protection, protective gloves, face protection, protective clothing. P312 - Call a doctor if you feel unwell. P405 - Store locked up. P501 - Dispose of contents/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	: Do not contaminate water with the product or its container.

### 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. Substances

Name	Product identifier	%
1,3-dichloropropene	(CAS-No.) 542-75-6 (EC-No.) 208-826-5 (EC Index-No.) 602-030-00-5	>= 93

Full text of H-statements: see section 16

### 3.2. Mixtures

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 person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration as needed. Call a POISON CENTER/doctor if you feel unwell.
First-aid measures after skin contact	: Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash with plenty of water/.... Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. 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 DELAY. Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

Symptoms/effects after inhalation	: May cause respiratory irritation.
Symptoms/effects 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. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects 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

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray.
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.
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Explosion hazard	: May form flammable/explosive vapour-air mixture. Heavier than air, vapours may travel long distances along ground, ignite and flash back to source.
Hazardous decomposition products in case of fire	: Under fire conditions, hazardous fumes will be present. Combustion produces irritating gases. Carbon dioxide. Carbon monoxide. hydrogen 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 the 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. Use special care to avoid static electric charges. No open flames. No smoking.
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#### 6.1.1. For non-emergency personnel

Emergency procedures	: Evacuate unnecessary personnel.
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#### 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.
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### 6.4. Reference to other sections

See Heading 8. Exposure controls/personal protection.

## 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	: Avoid contact with skin and eyes. Provide good ventilation in process area to prevent formation of vapour. No open flames. No smoking. Avoid breathing vapours. Use only outdoors or in a well-ventilated area.
Hygiene measures	: Do not eat, drink or smoke when using this product. Wash hands and forearms thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: Ground/bond container and receiving equipment. Take precautionary measures against static discharges.
Storage conditions	: Keep only in the original container in a cool well ventilated place. Keep container tightly closed.
Incompatible products	: Strong bases. Strong acids. Oxidizing agent.
Incompatible materials	: Sources of ignition. Direct sunlight. Heat sources.
Information on mixed storage	: Do not store in: zinc. Aluminium and its alloys. Magnesium and its alloys. Keep away from food, drink and animal feedingstuffs.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

### 8.2. Exposure controls

#### Personal protective equipment:

Avoid all unnecessary exposure.

#### Hand protection:

Standard EN 374 - Protective gloves against chemicals. Neoprene protective gloves

#### Eye protection:

Safety goggles with side protection against splashes (UNE-EN 166:2002)

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### Skin and body protection:

Wear suitable protective clothing

### Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection.

### Personal protective equipment symbol(s):



### 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
Colour	: colourless to yellow.
Odour	: Sweet.
Odour threshold	: No data available
pH	: 6.5 (1%)
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 107 °C (760 mmHg)
Flash point	: 27 °C (closed cup - method A9 from CE)
Auto-ignition temperature	: > 400 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: Flammable liquid and vapour.
Vapour Pressure 20°C	: 23 mm Hg (20°C)
Vapour density	: 3.8 (air=1)
Relative density	: No data available
Density	: 1.211 g/cm <sup>3</sup> (20°C)
Solubility	: No data available
Log Pow	: 1.82 - 2.1
Viscosity, kinematic	: 0.636 mm <sup>2</sup> /s (20°C)
Viscosity, dynamic	: 0.66 mPa.s (40°C)
Explosive properties	: No data available
Oxidising properties	: No oxidising.
Explosive limits	: No data available

### 9.2. Other information

Other properties : Henry's constant :: 1,01E+02 - 1,70E+02 Pa.m<sup>3</sup>/mol.

## 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

Flammable liquid and vapour. May form flammable/explosive vapour-air mixture.

### 10.3. Possibility of hazardous reactions

No polymerization.

### 10.4. Conditions to avoid

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

### 10.5. Incompatible materials

Avoid contact with : Strong acids. Strong bases. Oxidising agents. zinc. Cadmium. aluminium. Magnesium. Alloys of aluminium and magnesium.

### 10.6. Hazardous decomposition products

May release flammable gases. Thermal decomposition generates : Fumes. Hydrogen chloride. Carbon monoxide. Carbon dioxide. Phosgene.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral) : Oral: Toxic if swallowed.

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Acute toxicity (dermal) : Dermal: Toxic in contact with skin.

Acute toxicity (inhalation) : Inhalation: Harmful if inhaled.

### 1,3-dichloropropene (542-75-6)

LD50 oral rat > 110 mg/kg bodyweight

LD50 dermal rabbit 333 mg/kg

LC50 inhalation rat (Vapours - mg/l/4h) > 2.7 mg/l/4h

Skin corrosion/irritation : Causes skin irritation.

pH: 6.5 (1%)

Serious eye damage/irritation : Causes serious eye irritation.

pH: 6.5 (1%)

Respiratory or skin sensitisation : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified

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

Carcinogenicity : Not classified

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

Reproductive toxicity : Not classified

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

STOT-single exposure : May cause respiratory irritation.

STOT-repeated exposure : Not classified

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

Aspiration hazard : May be fatal if swallowed and enters airways.

### 1,3-dichloropropene (542-75-6)

Viscosity, kinematic 0.636 mm<sup>2</sup>/s (20°C)

## SECTION 12: Ecological information

### 12.1. Toxicity

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

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

### 1,3-dichloropropene (542-75-6)

LC50 fishes 0.87 mg/l (96 h - *Cyprinodon variegatus*)

LC50 fish 2 2.78 mg/l (96 h - *Oncorhynchus mykiss*)

EC50 Daphnia 3.58 mg/l (48 h - *Daphnia magna*)

EC50 other aquatic organisms 1 0.64 mg/l (48 h - *Crassostrea virginica*)

ErC50 (algae) 14.9 mg/l (72 h - *Pseudokirchneriella subcapitata*)

NOEC chronic fish 0.0318 mg/l (33 d - *Pimephales promelas*)

NOEC chronic crustacea 0.0701 mg/l (21 d - *Daphnia magna*)

### 12.2. Persistence and degradability

#### 1,3-dichloropropene (542-75-6)

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

ThOD 1.281 g O<sub>2</sub> /g substance

Biodegradation 4.9 % (OCDE 301D)

### 12.3. Bioaccumulative potential

#### 1,3-dichloropropene (542-75-6)

Bioconcentration factor (BCF REACH) < 100

Log Pow 1.82 - 2.1

Bioaccumulative potential Not established.

### 12.4. Mobility in soil

No additional information available

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### 12.5. Results of PBT and vPvB assessment

#### 1,3-dichloropropene (542-75-6)

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

Additional information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to appropriate 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 / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number</b>				
2047	2047	2047	2047	2047
<b>14.2. UN proper shipping name</b>				
DICHLOROPROPENES	DICHLOROPROPENES	Dichloropropenes	DICHLOROPROPENES	DICHLOROPROPENES
<b>Transport document description</b>				
UN 2047 DICHLOROPROPENES, 3, III, (D/E), ENVIRONMENTALLY HAZARDOUS	UN 2047 DICHLOROPROPENES, 3, III, MARINE POLLUTANT/ENVIRONME NTALLY HAZARDOUS	UN 2047 Dichloropropenes, 3, III, ENVIRONMENTALLY HAZARDOUS	UN 2047 DICHLOROPROPENES, 3, III, ENVIRONMENTALLY HAZARDOUS	UN 2047 DICHLOROPROPENES, 3, III, ENVIRONMENTALLY HAZARDOUS
<b>14.3. Transport hazard class(es)</b>				
3	3	3	3	3
<b>14.4. Packing group</b>				
III	III	III	III	III
<b>14.5. Environmental hazards</b>				
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) : F1  
Limited quantities (ADR) : 5I  
Excepted quantities (ADR) : E1  
Packing instructions (ADR) : P001, IBC03, LP01, R001  
Mixed packing provisions (ADR) : MP19  
Portable tank and bulk container instructions (ADR) : T2  
Portable tank and bulk container special provisions (ADR) : TP1  
Tank code (ADR) : LGBF  
Vehicle for tank carriage : FL  
Transport category (ADR) : 3  
Special provisions for carriage - Packages (ADR) : V12

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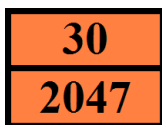
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Special provisions for carriage - Operation (ADR) : S2

Hazard identification number (Kemler No.) : 30

Orange plates :



Tunnel restriction code (ADR) : D/E

EAC code : 2YE

### Transport by sea

Special provisions (IMDG) : 223

Packing instructions (IMDG) : P001, LP01

IBC packing instructions (IMDG) : IBC03

Tank instructions (IMDG) : T2

Tank special provisions (IMDG) : TP1

EmS-No. (Fire) : F-E

EmS-No. (Spillage) : S-D

Stowage category (IMDG) : A

Properties and observations (IMDG) : Colourless or yellow liquids with a sweet odour. Explosive limits: 5% to 14% Immiscible with water. Irritating to skin, eyes and mucous membranes.

MFAG-No : 129

### Air transport

PCA Excepted quantities (IATA) : E1

PCA Limited quantities (IATA) : Y344

PCA limited quantity max net quantity (IATA) : 10L

PCA packing instructions (IATA) : 355

PCA max net quantity (IATA) : 60L

CAO packing instructions (IATA) : 366

CAO max net quantity (IATA) : 220L

Special provisions (IATA) : A3

ERG code (IATA) : 3L

### Inland waterway transport

Classification code (ADN) : F1

Limited quantities (ADN) : 5 L

Excepted quantities (ADN) : E1

Carriage permitted (ADN) : T

Equipment required (ADN) : PP, EX, A

Ventilation (ADN) : VE01

Number of blue cones/lights (ADN) : 0

### Rail transport

Classification code (RID) : F1

Excepted quantities (RID) : E1

Packing instructions (RID) : P001, IBC03, LP01, R001

Mixed packing provisions (RID) : MP19

Portable tank and bulk container instructions (RID) : T2

Portable tank and bulk container special provisions (RID) : TP1

Tank codes for RID tanks (RID) : LGBF

Transport category (RID) : 3

Special provisions for carriage – Packages (RID) : W12

Colis express (express parcels) (RID) : CE4

Hazard identification number (RID) : 30

### 14.7. Transport in bulk according to Annex II of Marpol 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

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No REACH Annex XVII restrictions

1,3-dichloropropene is not on the REACH Candidate List

1,3-dichloropropene is not on the REACH Annex XIV List

Directive 2012/18/EU (SEVESO III)

### 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

### Abbreviations and acronyms:

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
IMDG	International Maritime Dangerous Goods
IATA	International Air Transport Association
EC50	Median effective concentration
LC50	Median lethal concentration
vPvB	Very Persistent and Very Bioaccumulative
PBT	Persistent Bioaccumulative Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006

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.

Other information : None.

### Full text of H- and EUH-statements:

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



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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*