



ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830

1. SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product Name 1,3-DICHLOROPROPENE
Alternative names 1,3-dichloropropylene
Chemical Name 1,3-dichloropropene

 $\begin{array}{ccc} \text{Chemical Formula} & & C_3H_4\text{Cl}_2 \\ \text{CAS No.} & & 542\text{-}75\text{-}6 \\ \text{EC No.} & & 208\text{-}826\text{-}5 \\ \end{array}$

REACH Registration No. Exempt.(Plant protection products)

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

Identified Use(s) Active substance for use in plant protection products.

Uses Advised Against Not known.

1.3 Details of the supplier of the safety data sheet

Company Identification Kanesho Soil Treatment SRL/BVB

Address of Supplier avenue de

Tervueren 270

Brussels

Postal code 1150

 Telephone:
 +32 (0)2 763 40 59

 Fax
 +32 (0)2 763 40 47

 E-mail
 info@kaneshost.be

1.4 Emergency telephone number

Emergency Phone No. +44(0)1235 239 670

Contact CareChem

2. SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Regulation (EC) No. 1272/2008 (CLP) Acute Tox. 3 :Toxic if swallowed.

Acute Tox. 3: Toxic if inhaled.

Acute Tox. 3:Toxic in contact with skin.

Aquatic Acute 1:Very toxic to aquatic life.

Aquatic Chronic 1 :Very toxic to aquatic life with long lasting effects.

Asp. Tox. 1: May be fatal if swallowed and enters airways.

Eye Irrit. 2 :Causes serious eye irritation. Flam. Liq. 3 :Flammable liquid and vapour.

Skin Irrit. 2: Causes skin irritation.

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Skin Sens. 1: May cause an allergic skin reaction. STOT SE 3: May cause respiratory irritation.

2.2 Label elements

According to Regulation (EC) No. 1272/2008 (CLP)

Product Name 1,3-DICHLOROPROPENE

Hazard Pictogram(s)









Signal Word(s)

Danger

GHS02

Hazard Statement(s) 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.

H331: Toxic if inhaled.

sources. No smoking.

H335: May cause respiratory irritation.

H410: Very toxic to aquatic life with long lasting effects.

Precautionary Statement(s)

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P273: Avoid release in the environment.

P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P331: Do NOT induce vomiting.

P370+P378: In case of fire: Use water spray, foam, dry powder or CO2 to

extinguish.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.
P309 + P311 - IF exposed or if you feel unwell: Call a POISON

CENTER or doctor/ physician.

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

Additional label requirements

None.

2.3 Other hazards

None known.

2.4 Additional Information

For full text of H/P Statements see section 16.

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3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Concentration

HAZARDOUS	CAS No.	EC No. / REACH	%W/W	Hazard Statement(s)	Hazard
INGREDIENT(S)		Registration No.			Pictogram(s)
1,3-dichloropropene	542-75-6	208-826-5	≥94	Flam. Liq. 3 H226	GHS02
				Acute Tox. 3 H301	GHS06
				Asp. Tox. 1 H304	GHS08
				Acute Tox. 3 H311	GHS09
				Skin Irrit. 2 H315	
				Skin Sens. 1 H317	
				Eye Irrit. 2 H319	
				Acute Tox. 3 H331	
				STOT SE 3 H335	
				Aquatic Acute 1 H400	
				Aquatic Chronic 1 H410	

3.2 Mixtures

Not applicable

4. SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation Remove person to fresh air and keep comfortable for breathing. Obtain immediate

medical attention.

Skin Contact Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin

irritation or rash occurs: Get medical advice/attention.

Eye Contact Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing. If eye irritation persists: Obtain immediate medical

attention.

Ingestion Rinse mouth. Do not induce vomiting. TRANSFER TO HOSPITAL IMMEDIATELY.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation: Irritation of the respiratory tract. Coughing. Liver and kidney injuries, Lung oedema, Chemical pneumonitis, Causes damage to the central nervous

system.

Skin Contact : Irritation, Redness, Swelling, Burns, Dermatitis, Repeated exposure

may cause skin dryness and cracking.

Eye Contact: Redness, May cause excessive watering of the eye (lachrymation).

Risk of temporary eye lesions.

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Ingestion: Irritation, Causes nausea/vomiting. Abdominal pain, Diarrhoea, Risk of convulsions, loss of consciousness, deep coma and cardiopulmonary arrest. Risk of chemical pneumonitis and pulmonary (o)edema resulting from aspiration during vomiting

4.3 Indication of any immediate medical attention and special treatment needed

In the case of difficulty of opening the lids, administer an analgesic eye wash (oxybuprocaine). Medical examination necessary even only on suspicion of intoxication. Risk of blood, liver, kidney and nervous system effects. Obtain immediate medical attention.

5. SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Unsuitable extinguishing media Water jet spray

5.2 Special hazards arising from the substance or mixture

May form explosive vapour/air mixtures. The vapour is heavier than air and spreads along ground. Risk of ignition, Decomposes in a fire giving off toxic fumes: Hydrogen

chloride gas, Phosgene, Carbon monoxide

5.3 Advice for firefighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus. If it is safe to do so, containers should be removed from fire area because they are likely to rupture under fire conditions. This product should be kept away from naked flames and other sources of ignition. Water spray should be used to cool containers.

6. SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Use non-sparking ventilation systems, approved explosion-proof equipment, and intrinsically safe electrical systems. Ensure full personal protection (including respiratory protection) during removal of spillages. Stop leak if safe to do so. Eliminate sources of ignition. Cover the spreading liquid with foam in order to slow down the evaporation.

6.2 Environmental precautions

Avoid release to the environment. Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.

6.3 Methods and material for containment and cleaning up

Collect spillage. Adsorb spillages onto sand, earth or any suitable adsorbent material. Contain spillages with sand, earth or any suitable adsorbent material. Earth may be shoveled to contain spillage and to avoid contamination of sewers and watercourses.

6.4 Reference to other sections

See Also Section 8, 13.

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6.5 Additional Information

None.

7. SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands and exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid breathing vapours. Use only outdoors or in a well-ventilated area. Purge piping circuits and equipment with nitrogen. Take off contaminated clothing and wash it before reuse.

Contaminated work clothing should not be allowed out of the workplace.

7.2 Conditions for safe storage, including any incompatibilities

Store in a well-ventilated place. Keep cool. Store locked up. Keep container tightly

closed. Keep under inert gas

Appropriate packaging : Stainless steel, Steel drum

Storage temperature Ambient.

Storage life Stable under normal conditions.

Incompatible materials Oxidizing agents, Polyethylene, PVC, Light metals, Powdered metal salts

7.3 Specific end use(s)

Contact supplier for further information.

8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits No Occupational Exposure Limit assigned.

8.1.2 PNECs and DNELs Not established.

8.2 Exposure controls

8.2.1. Appropriate engineering controls Use non-sparking ventilation systems, approved explosion-proof equipment, and

intrinsically safe electrical systems. Use with ventilation, local exhaust ventilation or breathing protection. A washing facility/water for eye and skin cleaning purposes

should be present.

8.2.2. Personal protection equipment

Eye Protection Wear eye protection with side protection (EN166). Goggles giving complete

protection to eyes.

Skin protection

Wear protective clothing and gloves: Impervious gloves (EN 374). Suitable $\,$

Materials: Fluoroelastomer.

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Respiratory protection Wear suitable respiratory protective equipment. Gas filtering respirator (DIN EN

14387). For high (or unknown) concentrations suitable respiratory equipment with

positive air supply must be worn.

Thermal hazards Not applicable.

8.2.3. Environmental Exposure Controls Avoid release to the environment.

9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical

properties

Appearance Liquid.

Colour : Colourless.

Odour Chloroform.

Odour threshold Not known.

pH Not applicable.

Melting point/freezing point <-25°C
Initial boiling point and boiling range 103.8-114.5°C
Flash Point 27°C [Closed cup]
Evaporation rate Not known.
Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive

limits

Vapour pressure

48.50 hPa @ 25 °C (cis-isomer)

5.30-14.50 %(V)

29.82 hPa @ 25 °C (trans-isomer)

Vapour density 3.8

Density (g/ml) 1.22 g/cm³ @ 20 °C

Relative density 1.22 @ 20 °C

Solubility (ies) Solubility (Water): 2.5 g/l @ 20 °C

Solubility (Other): Soluble in: Common organic solvents, grease

Partition coefficient: n-octanol/water Log Pow: 1.82-2.1 @ 20°C

Auto-ignition temperature Not known.

Decomposition Temperature (°C) Not known.

Viscosity Dynamic viscosity: 0.78 mPa•s

Explosive properties Not explosive.

Oxidising properties Not oxidising.

9.2 Other information

Henry Constant 101-170 Pa•m³/mol @ 20 °C

Air, very volatile

Molecular weight 110.97 g/mol

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10. SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

May decompose on long exposure to light.

10.2 Chemical Stability

Stable under normal conditions.

10.3 Possibility of hazardous

reactions

Strong oxidizers, alkali metals and alkaline earth metals may cause fires or

explosions.

10.4 Conditions to avoid

Avoid friction, sparks, or other means of ignition. Heat and direct sunlight.

10.5 Incompatible materials

Oxidizing agents, Polyethylene, PVC, Light metals, Powdered metal salts

10.6 Hazardous decomposition

products

Thermal decomposition will evolve: Hydrogen chloride gas, Phosgene, Carbon

monoxide

11. SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity - Ingestion Toxic if swallowed.

LD50 (rat): 110 mg/kg

Acute toxicity - Skin Contact Toxic in contact with skin.

LD50 (rabbit): 333 mg/kg

Acute toxicity - Inhalation Toxic if inhaled.

LC50 (4 hour) (rat) : 2.7 mg/l

Skin corrosion/irritation

Causes skin irritation.
Causes serious eye irritation.

Serious eye damage/irritation Skin sensitization data

May cause an allergic skin reaction.

Respiratory sensitization data

Not classified.

Germ cell mutagenicity

Not classified.

Carcinogenicity

Not classified.

ogenicity Not cl

Oral (Target Organs: Liver)

NOAEL (rat) (male)(2 Year(s)): 2.5 mg/kg

No significant tumour

Oral

NOAEL (rat) (female): 25 mg/kg

Highest dose tested no observed effect

Oral (Target Organs: Bladder)

NOAEL (mouse)(male/female): 10 mg/kg

Benign tumours were observed at a high level of exposure

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Inhalation (Target Organs: Lungs)
NOAEC (mouse)(male): 20 ppm

Benign tumours were observed at a high level of exposure

Reproductive toxicity Not classified.

Toxicity to reproduction/Fertility (Inhalation) NOAEL (rat) (male/female): 90 ppm

Developmental toxicity/Teratogenicity (Inhalation)

NOAEL (rat) (female): 90 ppm

Lactation Not classified.

STOT - single exposure May cause respiratory irritation.

STOT - repeated exposure Not classified.

Oral (Target Organs: Liver, Stomach)

NOAEL (rat) (male/female)(2 Year(s)): 2.5 mg/kg

Inhalation (Target Organs: Nose)

NOAEC (rat) (male/female)(2 Year(s)): 20 ppm

Oral (Target Organs: Bladder)

NOAEL (mouse)(male/female)(18 Month(s)): 10 mg/kg

Inhalation (Target Organs: Nose)

NOAEC (mouse)(male/female)(2 Year(s)): 5 ppm

Aspiration hazard May be fatal if swallowed and enters airways.

11.2 Other information

Not known.

12. SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicit

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Very toxic to aquatic life with long lasting effects.

Toxicity - Aquatic invertebrates Daphnia magna (Water flea)

EC50 (48 hour): 3.58 mg/l

Toxicity - Fish Acute

Oncorhynchus mykiss (Rainbow trout)

LC50 (96 hour): 2.78 mg/l

Cyprinodon variegatus (Sheepshead minnow)

LC50 (96 hour): 0.87 mg/l

Chronic

Pimephales promelas (Fathead minnow)

NOEC (33 days): 0.032 mg/l

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Toxicity - Algae Selenastrum capricornutum (Green algae)

ErC50 (72 hour): 13.6 mg/l

Skeletonema costatum (Marine diatom)

ErC50 (72 hour): 13.4 mg/l

Toxicity - Sediment Compartment Not classified.

Toxicity - Terrestrial Compartment Not classified.

12.2 Persistence and Degradation

Abiotic Degradation Photodegradation

Indirect photo-oxidation, Air, Non-significant photolysis Sensitizer : OH, Half-life indirect photolysis: 7-12 h

Sensitizer: OH/O3 radicals, Half-life indirect photolysis: 12-52 days

Biodegradation Biodegradability

Inherent biodegradability study - aerobic from 55 - 85 % - 7 days

Inoculum: adapted culture, chemical degradation

Anaerobic

Method: methanogenesis

Inherently biodegradable, dehalogenation

Aerobic

Method: ready biodegradability/MITI

Not readily biodegradable.

12.3 Bioaccumulative

potential

Bioconcentration factor (BCF): 0.86

12.4 Mobility in soil Soil, Sediment

Log Koc: ca. 2

Significant evaporation and percolation

12.5 Results of PBT and vPvB assessment

Not classified as PBT or vPvB.

12.6 Other adverse

effects

Not known.

13. SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Refer to manufacturer/supplier for information on recovery/recycling. The organic ingredients can be incinerated in a suitable installation when in accordance with local regulations. Recover and reclaim or recycle, if practicable.

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13.2 Additional Information

Disposal should be in accordance with local, state or national legislation.

14. SECTION 14: TRANSPORT INFORMATION

14.1 UN number

UN No. 2047

14.2 UN proper shipping name

UN proper shipping name DICHLOROPROPENES

355

14.3 Transport hazard class(es)

ADR/RID Class 3
IMDG Class 3

IMDG EMS Not available

ICAO/IATA

Excepted Quantities E1
Passenger and Cargo Aircraft Limited Y344

Quantities Packing Instructions

Passenger and Cargo Aircraft Limited 10L

Quantities Max net Qty

Passenger and Cargo Aircraft Packing

Instructions

Passenger and Cargo Aircraft Max net 60L

Qty

Cargo Aircraft Packing Instructions 366
Cargo Aircraft Max net Qty 220L
Special Provisions A3
Emergency Response Guidebook (ERG) 3L

Code

ADR Classification Code F1
ADR HIN 30
ADR Transport Category 3
Tunnel Restriction Code D/E
Emergency Action Code 2Y

APP Advice on Additional Personal Not applicable

Protection (APP)

14.4 Packing group

Packing group III

Labels



Special Provisions Not applicable

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Excepted Quantities E

Mixed Packing Instructions for Packages P001 IBC03 LP01 R001

Special Packing Provisions for Packages Not applicable

Mixed Packing Instructions for Packages MP19

14.5 Environmental hazards

Environmental hazards Classified as a Marine Pollutant.

14.6 Special precautions for user

Special precautions for user Not known.

14.7 Transport in bulk according to Annex II of Marpol and the

IBC

Code Product Name 1,3-DICHLOROPROPENE

Ship Type 2
Pollution Category X
Packing Instructions for Portable Tanks T2
Special Provisions for Portable Tanks TP1
Tank Code for Tanks LGBF

Special Provisions for Tanks Not applicable

Vehicle for Tank Carriage FL
Special Provisions for Carriage - V12

Packages

Special Provisions for Carriage - Bulk Not applicable Special Provisions for Carriage - Loading, Not applicable

Unloading and Handling

Special Provisions for Carriage - S2

Operation

15. SECTION 15: REGULATORY INFORMATION

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

European Regulations - Authorisations and/or Restrictions On Use

Candidate List of Substances of Very

Not listed

High Concern for Authorisation

REACH: ANNEX XIV list of substances Not listed

subject to authorisation

REACH: Annex XVII Restrictions on the Not listed

manufacture, placing on the market and use of certain dangerous substances,

mixtures and articles

Community Rolling Action Plan (CoRAP) Not listed Regulation (EC) N° 850/2004 of the Not listed

European Parliament and of the Council

on persistent organic pollutants

Regulation (EC) N° 2037/2000 on Not listed

substances that deplete the ozone layer

Regulation (EU) N° 649/2012 of the 1,3-dichloropropene (542-75-6)

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European Parliament and of the Council concerning the export and import of

hazardous chemicals National regulations

Other Not known.

15.2 Chemical Safety Assessment

A REACH chemical safety assessment has not been carried out.

15.3 Inventory Status

Listed in: Mexico (INSQ), United States (TSCA), New Zealand Inventory (NZIoC), Canada (DSL/NDSL), Australia (AICS), Japan (ENCS), South Korea (KECI), China (IECSC), Philippines (PICCS), European Union (EINECS/ELINCS), Taiwan (NECI),

Switzerland.

16. SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements:

1-16

LEGEND

Hazard Pictogram(s)



GHS02



GHS06



GHS08



GHS09

Hazard Statement(s) 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.

H331: Toxic if inhaled.

H335: May cause respiratory irritation.

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

Precautionary Statement(s) P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P233: Keep container tightly closed.

P240: Ground/bond container and receiving equipment.

P241: Use explosion-proof electrical/ventilating/lighting/equipment.

P242: Use only non-sparking tools.

P243: Take precautionary measures against static discharge.

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P261: Avoid breathing vapours.

P264: Wash hands and exposed skin thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P271: Use only outdoors or in a well-ventilated area.

P272: Contaminated work clothing should not be allowed out of the workplace.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection. P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P302+P352: IF ON SKIN: Wash with plenty of water.

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P311: Call a POISON CENTER/doctor.

P312: Call a POISON CENTER/doctor if you feel unwell.

P321: Specific treatment (see on this label).

P330: Rinse mouth.

P331: Do NOT induce vomiting.

P332+P313: If skin irritation occurs: Get medical advice/attention.

P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

P337+P313: If eye irritation persists: Get medical advice/attention.

P361+P364: Take off immediately all contaminated clothing. And wash it before reuse.

P362+P364: Take off contaminated clothing and wash it before reuse.

P370+P378: In case of fire: Use to extinguish.

P391: Collect spillage.

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

P403+P235: Store in a well-ventilated place. Keep cool.

P405: Store locked up.

P501: Dispose of this material and its container as hazardous waste.

ADN: European Agreement concerning the International Carriage of Dangerous

Goods by Inland Waterways

ADR: European Agreement concerning the International Carriage of Dangerous

Goods by Road

CAS: Chemical Abstracts Service

CLP: Regulation (EC) No 1272/2008 on classification, labelling and packaging of

substances and mixtures

DNEL : Derived No Effect Level EC : European Community

EINECS: European Inventory of Existing Commercial Chemical Substances

IATA: International Air Transport Association

Acronyms

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IBC: Intermediate Bulk Container

ICAO : International Civil Aviation Organization
IMDG : International Maritime Dangerous Goods

LTEL: Long term exposure limit

PBT : Persistent, Bioaccumulative and Toxic PNEC : Predicted No Effect Concentration

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail

STEL: Short term exposure limit STOT: Specific Target Organ Toxicity

UN: United Nations

vPvB: very Persistent and very Bioaccumulative

Disclaimers

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