

Safety Data Sheet (SDS) Dilone AL

According to UN GHS 8th Ed

Revision Date: 28/08/2022

First print date: 01/06/2018

Version: 1.1

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

Product identifier:

Identification as on the label/Trade name: Dilone AL

Common Name: 1,3-dichloropropene 1 100 g/ℓ AL

Relevant identification uses of the substance and uses advised against:

Identified uses: Insecticide / Acaracide

Uses advised against: Use only as directed.

Details of the supplier of the Safety Data Sheet:

Enviro Bio-Chem (Pty) Ltd, 44 Kerk Street,
Lichtenburg, North West, South Africa, 2740

Details of the Registration Holder:

Erintrade cc t/a RT Chemicals, 44 Kerk Street,
Lichtenburg, North West, South Africa, 2740

Contact Details:

Telephone: +27 87 231 7261

Fax: 086 541 7948

Website: www.envirobiochem.co.za

Emergency telephone numbers:

24 Hour Emergency Number: Bateleur: +27 83 123 3911

Griffon Poison Information Centre: +27 82 446 8946

Poisons Information Helpline: 0861 555 777

Tygerberg Hospital: +27 21 931 6129

SECTION 2. HAZARD IDENTIFICATION

Classification of the substances or mixture

The mixture is classified according to Regulation (EC) No 1272/2008 EU-GHS/CLP

Hazard classes/Hazard categories	Hazard statement
Flammable Liquid (Category 3)	H226
Acute toxicity oral (Category 3)	H301
Aspiration Hazard (Category 1)	H304
Acute toxicity dermal (Category 4)	H312
Skin Sensitisation (Category 1)	H317
Skin irritation (Category 2)	H315
Eye Irritation (Category 2)	H319
Reproductive Toxicity (Category 2)	H361d
Acute toxicity Inhalation (Category 4)	H332
STOT SE (Category 3)	H335
Carcinogenicity (Category 1B)	H350
Reproduction (Category 1B)	H360F
Aquatic Toxicity Acute (Category 1)	H400
Aquatic Toxicity Chronic (Category 1)	H410

For full text of H statements see section 16

The most important adverse effects

The most important adverse physicochemical effects: Highly flammable liquid and vapour

The most important adverse human health effects: May be fatal if ingested and aspiration occurs. Harmful if swallowed. Causes serious eye and skin irritation. Suspected of damaging unborn child. May cause cancer.

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Label elements


Hazard pictograms:
Signal Word: Danger

Hazard Statements:

H226	Flammable liquid and vapour
H301	Toxic if swallowed
H304	May be fatal if swallowed and enters airways
H312	Harmful 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
H350	May cause cancer
H360F	May damage fertility or the unborn child
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

Precautionary Statements:

P102	Keep out of reach of children
P103	Read label before use
P202	Do not handle until all safety precautions have been read and understood.
P210:	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233:	Keep container tightly closed.
P261	Avoid breathing mist, vapours and spray.
P264	Wash hands and face thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release into the environment.
P280:	Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.
P301/310:	IF SWALLOWED: Immediately call a POISON CENTER.
P302/352:	IF ON SKIN: Wash with plenty of water and non-abrasive soap.
P305/351/338:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308/313:	If exposed or concerned: Get medical attention.
P331:	Do NOT induce vomiting.
P332/313:	If skin irritation occurs: get medical advice.
P337/313:	If eye irritation persists: Get medical advice.
P362/364:	Take off contaminated clothing and wash it before reuse.
P391	Collect spillage.
P405:	Store locked up.

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P403/235:	Store in a well-ventilated place. Keep cool.
P501:	Dispose of content/container to suitable landfill in accordance with local regulations.

Other hazards: Toxic to bees

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture

Ingredients:

Substance name (IUPAC)	CAS Number.	Concentration % by weight	Classification EC1272/2008
1,3-Dichloropropene	542-75-6	95.01%	Flammable liquids (Category 3), H226 Acute Toxicity Oral (Category 3) H301 Acute Toxicity Dermal (Category 3) H311 Acute Toxicity Inhalation (Category 4)H332 Skin irritation (Category 2), H315 Eye irritation (Category 2), H319 Skin sensitisation (Category 2) H317 Aspiration hazard (Category 1), H304 STOT SE (Category 3), Respiratory system, H335 Aquatic Acute (Category 1)H400 Aquatic Chronic (Category 1) H410
1,2-Dichloropropane(4.2%)	78-87-5	< 5%	Flammable Liquid (Category 2) H225 Acute Toxicity Oral (Category 4) H302 Acute Toxicity Inhalation (Category 4)H332 Carcinogenicity (Category 1B) H350
1,2,3-Trichloropropane(0.75%)	96-18-4	< 1%	Acute Toxicity Oral (Category 4) H302 Acute Toxicity Dermal (Category 4) H312 Acute Toxicity Inhalation (Category 4)H332 Carcinogenicity (Category 1B) H350 Reproduction (Category 1B) H360 F

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4. FIRST AID MEASURES

Description of first aid measures:

In case of inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

In case of skin contact: In case of contact, Remove contaminated clothing and shoes. Gently wipe off excess chemical. Wash skin gently and thoroughly with water and non-abrasive soap. Obtain medical attention if irritation persists.

In case of eye contact: Flush eyes with clean water for at least 15 – 20 minutes. Lift eyelids to facilitate irrigation. If present, remove contact lenses after 5 minutes and continue rinsing. Seek medical attention immediately.

In case of ingestion Seek medical attention or call a poison control centre for treatment advice. Do not give anything by mouth to an unconscious person. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or

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waistband.

Most important symptoms and effects, both acute and delayed:

Inhalation: Hazardous in case of inhalation product is a lung irritant. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath. Over-exposure by inhalation may cause respiratory irritation.

Ingestions: May be fatal if swallowed and enters airways. Irritating to mouth, throat and stomach.

Skin contact: Causes skin irritation.

Eye contact: Causes serious eye irritation.

Indication of any immediate medical attention and special treatment needed:

Treat symptomatically and supportively. No specific antidote known.

SECTION 5. FIRE FIGHTING MEASURES

Extinguisher media:

Suitable extinguisher media: Foam. Dry powder. Carbon dioxide. Water spray.

Unsuitable extinguishing media: Do not use high volume water jet, due to contamination risk.

Specific hazards arising from the mixture:

Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous decomposition products in case of fire: Refer to Section 10: Stability and Reactivity.

Advice for fire-fighters:

Avoid inhaling hazardous vapours. Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear. Use an approved/certified respirator or equivalent.

Contain fire control agents for later disposal according to Section 13.

Water can be used to cool unaffected containers.

SECTION 6. ACCIDENTAL RELEASE

Personal precautions, protective equipment, and emergency procedures:

Personal precautions: Avoid contact with eyes and skin. Do not breathe in spray mist or fumes / vapours. Ventilate area of spill or leak, especially in contained areas.

Protective equipment: Refer to Section 8 for personal protective equipment to be worn during containment and clean-up of a spill involving this product

For emergency responders: Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear. Use an approved/certified respirator or equivalent. Avoid contact with eyes and skin. Do not breathe in fumes. Refer to section 8 for recommended personal protective equipment. Evacuate unnecessary personnel.

Environmental precautions:

Stop leak if without risk. This product is classified as very toxic to aquatic organisms and may cause long-term adverse effects in the aquatic environment. Any spillages or uncontrolled discharges into watercourses should be reported immediately to the police.

Methods for containment and cleaning up:

For small spills Contain spilled material if possible. Collect in suitable and properly labelled containers. Absorb with materials such as: sand, earth, vermiculite, or diatomaceous earth

For large spills Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements, or confined areas. Contain and collect spillage with noncombustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste

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disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling:

Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not swallow. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition sources. Use explosion-proof electrical (ventilating, lighting, and material handling) equipment. Use only nonsparking tools. Empty containers retain product residue and can be hazardous. Do not reuse container.

Protective measures: Observe directions on label and instructions for use.

Advice on general occupational hygiene: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures. Remove contaminated clothing and protective equipment before entering eating areas

Conditions for safe storage, including incompatibilities:

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Specific end uses:

Use as directed. Use original container.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters:

Exposure Limits:

Components	Exposure Limit TWA	Source
1,3 - Dichloropropene	1ppm	Hazardous Chemical Substances Regulations, 1995 or www.osha.g

Exposure control:

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. A Risk Assessment should be conducted before handling is to commence to determine specific exposure control.

Appropriate engineering controls: It is essential to provide adequate ventilation. The measures appropriate for a particular worksite depend on how this material is used and on the extent of exposure. Local Exhaust: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OELs or other specified exposure limits. Local exhaust ventilation is preferred. Ensure that control systems are properly designed and maintained. Comply with occupational safety, environmental, fire and other applicable regulations.

Hygiene measures: Wash hands, forearms, and face thoroughly after handling chemical products, before eating,

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smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection The use of chemical safety goggles is recommended to prevent against eye contact.

Hand protection: Use chemical resistant gloves. Examples of preferred glove barrier materials include Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, Polyvinyl alcohol, Polyvinyl chloride.

Body protection: Appropriate impervious clothing is required to prevent skin contact with the product.

Respiratory protection: Work only in a well-ventilated area. Respiratory protection is required; use a NIOSH approved, air purifying respirator with cartridges / canisters approved for organic vapours.

Environmental exposure controls: Prevent product from entry into sewers and water courses

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Liquid
Colour	Light yellow
Odour	Chloroform
Odour threshold	No data available
pH	neutral
Melting point / freezing point (°C)	No data available
Boiling point (°C)	103~110°C
Flash point (°C)	25-28 °C
Evaporation rate	No- data available
Flammability	Upper limit: 14,5 %(V); Lower limit: 5,3 %(V),
Upper /lower flammability limits	No data available
Vapour pressure	32 mbar (at 20 °C).
Vapour density	3.8 (Pure vapour).
Specific Gravity (25°C)	1.225
Water solubility (g/l) at 20°C	2.8 g/l (at 20 °C).
Partition coefficient : n-octanol/water	log Pow 1,41(Cis) ; log Pow 1,63(Trans) ; log Pow 1,98.
Auto-ignition temperature (°C)	No data available
Decomposition temperature (°C)	> 108 °C [≤ 500 °C]
Viscosity, dynamic (mPa s)	0,78 mPa.s
Explosive properties	Explosion possible with gas/vapour and air mixtures.
Oxidising properties	No data available
Explosive limits	No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity:

1,3-DICHLOROPROPENE reacts vigorously with oxidizing materials.

Chemical stability:

The product is stable for two years at ambient temperature and pressure, under normal storage and handling conditions. Avoid storage under extreme temperatures and conditions. Store below 50 °C, preferably below 30 °C, and not for prolonged periods in direct sunlight.

Possibility of hazardous reactions:

No information available.

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Conditions to avoid:

Extreme heat or exposure to flames. May form explosive mixtures with air when confined

Incompatible materials:

Strong oxidizers, strong bases, strong reducing agents.

Hazardous decomposition products:

Toxic materials are formed during exposure to high temperatures, (may include but not limited to carbon monoxide and carbon dioxide)

SECTION 11. TOXICOLOGICAL INFORMATION

Toxicokinetics, metabolism and distribution: No data available

Information on toxicological effects:

Assessment of acute toxicity:

The product has not been tested. The data reported is for the main ingredients in the mixture.

1,3-Dichloropropene CAS No. 542-75-6	
Acute toxicity:	
Acute Oral LD50 (rat - male)	150 mg/kg
Acute Dermal LD50 (rat):	1200 mg/kg
Acute Inhalation LC50 - 4 h (rat)	2.7 mg/l
Skin irritation/ corrosion (rabbits)	Causes severe skin irritation
Eye damage / irritation (rabbits)	Causes serious eye irritation
Skin sensitisation	Skin sensitiser
Respiratory sensitisation	May cause respiratory irritation
Germ cell mutagenicity	No data available
Carcinogenicity	No data available
Reproductive toxicity	No data available
Specific Target Organ Toxicity STOT single exposure	May cause respiratory irritation
Specific Target Organ Toxicity STOT repeated exposure	No data available exposure.
Aspiration hazard	My be fatal if swallowed and enters airways

Additional Information:

Irritant effects, Effects due to ingestion may include:, Central nervous system depression

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated

1,2-Dichloropropene CAS No. 78-87-5	
Acute toxicity:	
Acute Oral LD50 (rat - male)	2200 mg/kg
Acute Dermal LD50 (rabbit):	10100 mg/kg
Acute Inhalation LC50 - 6 h (rat)	2000 mg/l air
Respiratory or skin sensitization (Guinea pig)	Not a skin or respiratory sensitiser
Germ Cell Mutagenicity	No data available
Carcinogenicity	Suspected of having carcinogenic potential for humans
Reproductive toxicity	No data available
Specific Target Organ Toxicity STOT single exposure	No data available.
Specific Target Organ Toxicity STOT repeated exposure	No data available
Aspiration hazard	No data available

Additional Information:

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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1,2,3-Trichloropropane CAS No. 96-18-4	
Acute toxicity:	
Acute Oral LD50 (rat - male)	120 mg/kg
Acute Dermal LD50 (rat):	390 mg/kg
Acute Inhalation LC50 - 6 h (rat)	4.8 mg/l
Skin irritation/ corrosion (rabbits)	No skin irritation
Respiratory or skin sensitization	Does not cause skin sensitization.
Germ cell mutagenicity:	Suspected of causing genetic defects Test Type: Ames test Test system: Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: positive
Carcinogenicity	No data available
Reproductive toxicity	May damage fertility
Specific Target Organ Toxicity STOT single exposure	No data available
Specific Target Organ Toxicity STOT repeated exposure	Inhalation - Causes damage to organs through prolonged or repeated exposure. - Kidney, Liver, Mucous membranes Ingestion, Skin contact - May cause damage to organs through prolonged or repeated exposure. - Kidney, Liver
Aspiration hazard	No data available

Additional Information:

The following applies to aliphatic halogenated hydrocarbons in general: systemic effect: narcosis, cardiovascular disorders.

Toxic effect on liver, kidneys. Other dangerous properties cannot be excluded.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12. ECOLOGICAL INFORMATION

1,3-Dichloropropene CAS No. 542-75-6	
Toxicity	
Birds Acute oral LD ₅₀ Dietary LD ₅₀ (5d)	140 mg/kg Bobwhite tail >5620 mg/kg Mallard Ducks and Bobwhite Quail
Aquatic Toxicity Fish LC ₅₀ (96 hr)	2.78 mg/l (Rainbow trout); 7.1 mg/l (Bluegill sunfish), 0.87 mg/l (Sheepshead minnow)
Aquatic Toxicity Daphnia EC ₅₀ (48 hr)	3.58 mg/l
Toxicity to algae – static test E _r C ₅₀ (72 hr)	13.6mg/l – <i>Selenastrum capricornutum</i>
Toxicity to Bees LD ₅₀	6.6 µg/bee
Toxicity to worms LC ₅₀ (14D)	55.6 mg/kg soil <i>Eisenia fetida</i>
Persistence and degradability	No data available
Bioaccumulation potential	No data available
Mobility in soil	Non-persistent in soil, undergoing hydrolysis to the corresponding 3-chloroallyl alcohols.
Other adverse effects	Avoid release to the environment

1,2-Dichloropropene CAS No. 78-87-5

Toxicity

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Aquatic Toxicity Fish LC ₅₀ flow through test (96 hr)	140 mg/l Pimephales promelas (fathead minnow) -
Aquatic Toxicity Daphnia semi static EC ₅₀ (48 hr)	2.7 mg/l - Daphnia magna (Water flea)
Toxicity to algae – static test ErC ₅₀ (96h)	7.95 mg/l Pseudokirchneriella subcapitata (green algae)
Toxicity to bacteria static test IC ₅₀ (3h)	>1.000 mg/l
Persistence and degradability	
Biodegradability-aerobic 28 days	11.7 % - Not readily biodegradable.
Bioaccumulation potential	
Bioaccumulation 42 days @ 20 °C	Bioconcentration factor (BCF) : 0.5 - 7
Mobility in Soil	No data available
Other adverse effects	Avoid release to the environment

1,3-Dichloropropene CAS No. 542-75-6	
Toxicity	
Aquatic Toxicity Fish LC ₅₀ flow through test (96 hr)	66.5 mg/l Pimephales promelas (fathead minnow)
Aquatic Toxicity Daphnia semi static EC ₅₀ (48 hr)	20 mg/l Daphnia magna (Water flea)
Toxicity to algae – static test EC ₅₀ (72 hr)	49.6 mg/l Pseudokirchneriella subcapitata (green algae)
Toxicity to bacteria static test IC ₅₀ (24h)	30 mg/l
Persistence and degradability	
Biodegradability-aerobic 28 days	0 % - Not readily biodegradable.
Bioaccumulation potential	
Bioaccumulation 56 days @ 10 °C	Cyprinus carpio (Carp) - 6 Weeks (1,2,3-Trichloropropane) Bioconcentration factor (BCF): 5,3 - 13
Mobility in Soil	No data available
Result of PBT and vPvB assessment	No data available
Other adverse effects	Avoid release to the environment

SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods:

Product:

Keep out of drains, sewers, ditches, and waterways. Refer to container label for disposal information. Treat as hazardous waste and dispose of in accordance with local/ regional/ national/ international regulations.

Container:

Refer to container label for disposal information. Emptied containers retain product residues. Do not re-use the empty container for any other purpose. Invert the empty container over the spray or mixing tank and drain for at least 30 seconds after the flow has slowed down to dripping. Thereafter rinse the empty container three times in succession with one quarter of the container volume fresh water and decant the rinsate into the spray or mixing tank. Puncture the triple rinsed container and dispose of via an approved collector or recycler (www.croplife.co.za). Do not bury, burn, or donate the container to any other parties that may use it as a container for food or beverages. Observe all labelled safeguards until container is destroyed. Dispose of using an approved waste disposal service provider. Follow all local/ regional/ national/ international regulations.

SECTION 14. TRANSPORT INFORMATION

UN Number	2047
UN proper shipping name	Dichloropropenes
Transport hazard class	3

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Packaging group	III
Marine pollutant	Yes

SECTION 15. REGULATORY INFORMATION

Safety, health, and environmental regulations/legislation for the mixture:

Relevant information regarding authorization: Occupational Health and Safety Act 1993. Regulation for Hazardous Chemical Agents, 2021. UN Recommendations on the Transport of Dangerous Goods Model Regulations Rev. 21 (2019), Globally Harmonized System of Classification and Labelling of Chemicals (GHS) Rev 8, 2019.

Relevant information regarding restrictions:

EU regulations: Regulation EC 1272/2008 [EU-GHS/CLP]

Other National regulations:

National Road Traffic Act, 1996 (ACT NO. 93 of 1996).

SANS 10228:2012- The identification and classification of dangerous goods for transport by road and rail modes.

National Environmental Management Waste Act 59 of 2008.

Act 36 of 1947 of the Republic of South Africa. This product is registered under it is a violation of South African law to use this product in any manner inconsistent with its approved labelling. Read and follow all label directions

Chemical Safety Assessment carried out? No

SECTION 16. OTHER INFORMATION

Indication of changes:

Classification according to SANS 10234:2019, Regulation EC 1272/2008 [EU-GHS/CLP]

GHS aligned – all sections

Relevant H statements (number and full text):

H302-Harmful if swallowed

H311-Toxic in contact with skin

H225-Highly flammable liquid and vapour

STOT SE 3 H335 - Specific Target Organ Toxicity single exposure (Category 3), Respiratory system, Liver, Kidney

Training instructions:

Use as indicated on the label, special training may be required for application.

Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

The information on this sheet is not a specification; it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage, and use of the product. It is not applicable to unusual or non-standard uses of the product, nor where instructions or recommendations are not followed.