

**Product description: KORTHO SOLVENT 9****1. IDENTIFICATION OF THE SUBSTANCE OR THE MIXTURE AND OF THE COMPANY/BUSINESS****1.1 Product identifications**

Product name: Kortho Solvent 9, 946 cm3  
Internal code number: 054415  
Product description: Solvent

**1.2 Relevant identified use of the substance or the mixture and use that is advised against**

Identified use: Cleaning, thinning.

**1.3 Details relating to the provider of the safety data sheet**

Company: B.V. Korthofah  
Lageweg 39  
2222AG Katwijk ZH  
The Netherlands  
Telephone: 0031 71 40 60 480  
E-mail address: export@kortho.nl

**1.4 Telephone number in case of emergencies**

Emergency telephone number: 0031 30 274 88 88 (NIVC – 24 hours a day – Intended exclusively to provide information to professional care providers in cases of acute poisoning)

**2. HAZARDS IDENTIFICATION****2.1 Classification of the substance or the mixture****Classification in accordance with directive (EC) No. 1272/2008**

Flammable liquids (Category 2), H225

For the full text on H statements as set out in this section, see section 16.

**2.2 Labelling elements**

Labelling in accordance with directive (EC) No. 1272/2008

Pictogram



Signal word Warning

Hazard statement code (H code)

H225 Highly flammable liquid and vapour.

Preventive code (P code)

P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.

Supplementary

Hazard statement None

**2.3 Other hazards**

None

**3. COMPOSITION/INFORMATION ON INGREDIENTS****3.2 Mixture****Hazardous components according to Regulation (EC) No. 1272/2008**

Chemical name	Index. No.	EC No.	Cas No.	Conc. %	Category
Ethyl alcohol	603-002-00-5	200-578-6	64-17-5	<= 100	Flammable liquids 2; H225

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For the full text on the H statements as set out in this section, see section 16.

### 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures

**General advice**

Seek medical advice. Show this safety data sheet to the duty doctor.

**In case of inhalation**

Take the victim into the fresh air in cases of inhalation. If breathing has stopped, perform artificial respiration. Seek medical advice.

**In case of skin contact**

Wash off with soap and plenty of water. Seek medical advice.

**In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and seek medical advice.

**In case of ingestion**

DO NOT induce vomiting. Never attempt to get an unconscious person to drink (or eat). Rinse mouth with water. Seek medical advice.

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

The most important known symptoms and effects are described on the label (see section 2.2) and/or section 1.1.

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

No data available.

### 5. FIRE FIGHTING MEASURES

#### 5.1 Fire extinguishers

**Suitable fire extinguishers**

Use water spray, alcohol-resistant foam, dry powder or carbon dioxide.

#### 5.2 Special hazards arising from the substance or mixture

Carbon oxides.

#### 5.3 Advice for fire-fighters

Where necessary, wear self-contained breathing apparatus when fire fighting.

#### 5.4 More detailed information

Use water spray to cool down unopened containers.

### 6. MEASURES IN THE EVENT OF THE ACCIDENTAL RELEASE OF THE SUBSTANCE OR PREPARATION

#### 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing in vapours/mist/gas. Ensure there is adequate ventilation. Remove all sources of ignition. Beware of vapours, which accumulate into explosive concentrations. Vapours can accumulate in low-level rooms. For personal protective equipment, see section 8.

#### 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not allow product to get into the drains.

#### 6.3 Containment and cleaning methods and materials

Contain spills and collect using electrically protected vacuum cleaner or by wet-mopping and transferring into a container for disposal in accordance with local regulations (see section 13).

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- 6.4 Reference to other sections**  
For waste disposal, see section 13.

## 7. HANDLING AND STORAGE

- 7.1 Precautions for safe handling of the substance or mixture**  
Avoid contact with eyes or skin. Avoid breathing in vapour or mist.  
Keep away from sources of ignition – No smoking. Take measures to prevent the creation of electrostatic charges.  
For precautionary measures, see section 2.2.
- 7.2 Conditions for safe storage, including any incompatibilities**  
Store in a cool place. Store in tightly closed container in a dry and well ventilated place. Carefully close opened containers and store upright to prevent leaks.  
  
Keep away from oxidising agents and strong bases.
- 7.3 Specific end use(s)**  
Some of the applications set out in section 1.2 - no other applications have been agreed.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

#### Components with limit values for the workplace

Component	CAS No.	Value	Control parameters	Base
Ethyl alcohol	64-17-5	TWA	500 ppm 1,000 mg/m <sup>3</sup>	Working conditions amendment - Statutory limit values
	Comments	Administrative limit value		
		TWA (time-weighted average) - 8 hours	260 mg/m <sup>3</sup>	Working conditions amendment - Statutory limit values
		Carcinogenic substances		
		TWA-15 min	1,900 mg/m <sup>3</sup>	Working conditions amendment - Statutory limit values
		Carcinogenic substances		

### 8.2 Measures to control exposure

#### Suitable technical measures

Use in accordance with effective industrial hygiene and safety. Wash hands before each work break and at the end of the working day.

#### Personal protective equipment

##### Protection of the eyes / the face

Face protection and safety goggles. Use face and/or eye protection tested and approved by official organisations such as NIOSH (US) or EN166 (EU).

##### Protection of the skin

Handle with gloves. Properly check gloves before use. Carefully remove gloves without touching the outside with your exposed hand. Immediately throw away used gloves in accordance with the valid laboratory regulations. Wash and dry your hands. The protective gloves must comply with the specifications of EU Directive 89/686/EEC and the standard EN 374, which has been derived from this.

Glove material: Nitrile\*  
Thickness of material: 0.4 ± 0.05mm  
Penetration time: 120 minutes  
(\* Tested glove Nitrile I – KCL 0730)

**Product description: KORTHO SOLVENT 9****Body protection**

Impenetrable clothing, flame-retardant, anti-static protective clothing. The type of protective features depends on the concentration and quantity of hazardous substances in the workplace in question.

Material: Kleenguard

Type: T7 LAB (jacket) – T6 5ultra (suit)

Characteristics: EN1149-1 antistatic, non-heat retaining, protective clothing to prevent incendiary discharge. Clothing with a limited service life, which provides protection against chemicals and protects certain parts of the body:

- immediately throw clothing away after use;
- immediately throw damaged clothing away;
- strictly observe the operating instructions, which is supplied with the clothing.

Should unexpected contamination of the clothing worn under the protective clothing occur, then it should immediately be taken off and thrown away.

**Protecting the respiratory tract**

Whenever there are breathing risks, where necessary use a full-face respirator combined with (US) and/or type ABEK (EN 14387) breathing pattern as a support when undertaking a factory inspection. If the face mask is the only means of protection, use a full-face respirator (oxygen mask). Use respirators tested and approved by official government bodies such as NIOSH (US) or CEN (EU).

**Preventing exposure of the environment**

Prevent further leakage or spillage if safe to do so. Do not allow product to get into the drains.

**9. PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information about physical and chemical basic properties**

a)	Appearance	Form: liquid, clear Colour: colourless
b)	Odour	No data available
c)	Odour threshold value	No data available
d)	pH	No data available
e)	Melting/freezing point	Melting point/range: -114 °C
f)	Initial boiling point and boiling range	78 °C
g)	Flash point	14 °C - closed beaker
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	High/low flammability or explosion limit values	Upper explosion limit: 19 %(V) Lower explosion limit: 3.3 %(V)k)
k)	Vapour pressure	59.5 hPa at 20 °C
l)	Vapour density	No data available
m)	Relative density	No data available
n)	Solubility in water	Fully soluble
o)	Partition coefficient n-octanol / water	No data available
p)	Auto-ignition temperature	363 °C
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosion characteristics	No data available
t)	Oxidising characteristics	No data available

**9.2 Other safety information**

No data available.

**10. STABILITY AND REACTIVITY****10.1 Reactivity**

No data available.

**10.2 Chemical stability**

Stable under the recommended storage conditions.

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- 10.3 Potential hazardous reactions**  
No data available.
- 10.4 Conditions to be avoided**  
Heat, flames and sparks. Extreme temperatures and direct sunlight.
- 10.5 Incompatible materials**  
Alkali metals, Oxidants, Peroxides.
- 10.6 Hazardous decomposition products**  
Other decomposition products - no data available.  
In case of fire: see section 5.

**11. TOXICOLOGICAL INFORMATION**

**11.1 Information about toxicological effects**

**Acute toxicity**

LD50 Oral - Rat - 7,060 mg/kg  
LC50 Inhalation - Rat - 10 h - 20000 ppm

**Skin corrosion/irritation**

Skin - Rabbit  
Result: No skin irritation - 24 h  
(Guideline test OECD 404)

**Serious eye injury/eye irritation**

Eyes - Rabbit  
Result: Slight eye irritation - 24 h  
(Guideline test OECD 405)

**Sensitisation of the respiratory tracts/skin**

No data available

**Mutagenicity in reproductive cells**

No data available

**Carcinogenicity**

Carcinogenicity - Mouse - Oral  
Tumourigenic: Suspected tumourigenic agent according to RTECS criteria Liver: Tumours Blood: Lymphomas including Hodgkin's disease.

IARC: No component of this product, if present in a concentration of more than or equal to 0.1%, has been identified as a probable, possible or confirmed carcinogen by IARC.

**Toxicity for reproduction**

Toxicity for reproduction - Male - female - Oral  
Effects on the Newborn: Apgar score (only human) Effects on the Newborn: Other neonatal parameters or effects Effects on the Newborn: Drug dependence.

**Specific target organ toxicity - single exposure**

No data available.

**Specific target organ toxicity - repeated exposure**

No data available

**Hazard when inhaled**

No data available

**Additional information**

Weakening of the central nervous system, narcosis, damage to the heart, As far as we know, the chemical, physical and toxicological properties have not been thoroughly researched.

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### 12. ECOLOGICAL INFORMATION

- 12.1 Toxicity**  
No data available.
- 12.2 Persistence and degradability**  
No data available.
- 12.3 Bioaccumulation**  
No data available.
- 12.4 Mobility in soil**  
No data available.
- 12.5 Results of PBT- and vPvB assessment**  
PBT/vPvB assessment not available because a chemical safety assessment is not required/has not been performed.
- 12.6 Other harmful effects**  
In normal use, there are no known or anticipated environmental problems.

### 13. DISPOSAL CONSIDERATIONS

**13.1 Waste treatment methods**

**Product**

Combustion in a chemical incineration plant fitted with an afterburner and a scrubber, but exercise extra caution when igniting it as this substance is highly flammable. Provide the remains and non-recyclable solutions to a licensed disposal company.

**Contaminated packaging**

Remove as unused product.

### 14. INFORMATION RELATING TO TRANSPORTATION

**General information**

Transport the product in accordance with the provisions of the ADR for road transport, RID for rail transport, IMDG for sea transport and ICAO/IATA for air transport.

- 14.1 UN number**  
ADR/RID: 1170                      IMDG: 1170                      IATA: 1170
- 14.2 Proper shipping name from the UN Model Regulations**  
ADR/RID:              ETHYL ALCOHOL  
IMDG:                  ETHYL ALCOHOL  
IATA:                   ETHYL ALCOHOL
- 14.3 Transport hazard class(es)**  
ADR/RID: 3                      IMDG: 3.2                      IATA: 3
- 14.4 Packaging group**  
ADR/RID: II                      IMDG: II                      IATA: II
- 14.5 Environmental hazards**  
ADR/RID: no                      IMDG Marine pollutant: no                      IATA: no
- 14.6 Special precautions for the user**  
No data available.

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**15. REGULATIONS**

- 15.1 Specific health, safety and environmental regulations and legislation governing the substance or the mixture**  
No data available.
- 15.2 Chemical safety assessment**  
No chemical safety assessment has been carried out for this product.

**16. OTHER INFORMATION**

**Full text of H statements to which reference is made in sections 2 and 3**

H225 Highly flammable liquid and vapour.

**List of abbreviations and acronyms**

ADR	Accord européen relatif au transport international des marchandises Dangereuses par Route: European Agreement concerning the International Carriage of Dangerous Goods by Road.
CAS	Chemical Abstracts Service (division of the American Chemical Society).
EINECS	European Inventory of Existing Commercial Chemical Substances.
GHS	Globally Harmonized System of Classification and Labelling of Chemicals.
IATA	International Air Transport Association.
IMDG	International Maritime Dangerous Goods code: International code for the transportation of hazardous substances at sea.
NVIC	Nationaal Vergiftigingen Informatie Centrum [National Poisons Information Centre].
PBT	Persistent, bioaccumulating and toxic.
REACH	Registration, Evaluation and Authorisation of Chemicals.
RID	Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations for the transportation of hazardous substances by train).
STOT SE	Specific target organ toxicity – single exposure.
vPvB	Very Persistent and very Bioaccumulative.

**Classification procedures**

Classification in accordance with Regulation (EC) No. 1272/2008	Classification procedure
Flammable Liquid 2. H225	Calculation method

**Revision**

This SDS replaced the previous release with version number 06.1/03.11.2014. The SDS has been converted to the current regulations.

**More detailed information**

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