# **RENOLIT** ALKORPLUS

# SAFETY DATA SHEET

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

**Issuing date** 03-May-2012 **Revision Date** 03-May-2012 **Version** 001

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

### 1.1 Product identifier

**Product name** **RENOLIT** ALKORPLUS 81041

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

**Recommended Use** Primers

**Uses advised against** No information available

### 1.3 Details of the supplier of the safety data sheet

**Company Information**
RENOLIT Belgium NV
Industriepark De Bruwaan 9
B-9700 Oudenaarde
Belgium

**Telephone** +32 5533 9711

**Fax** +32 5531 9650

For further information, please contact:

**E-mail Address** renolit.belgium@renolit.com

### 1.4 Emergency telephone number

**Emergency telephone** +44 (0)1235 239 670 (24 hours, 7 days)

## SECTION 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008**

Asp. Tox. 1; H304
Skin Irrit. 2; H315
STOT SE 3; H336
Aquatic Chronic 2; H411
Flam. Liq. 2; H225

**Classification according to EU Directives 67/548/EEC or 1999/45/EC**

*For the full text of the R-phrases mentioned in this Section, see Section 16*

F - Highly flammable
Xn - Harmful
N - Dangerous for the environment
R11 - R38 - R51/53 - R65 - R67

## 2.2 Label elements

**Signal Word**
Danger

**Hazard Statements**
H225 - Highly flammable liquid and vapor
H304 - May be fatal if swallowed and enters airways
H315 - Causes skin irritation
H336 - May cause drowsiness or dizziness
H411 - Toxic to aquatic life with long lasting effects

**Precautionary statements**
P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking
P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing
P501 - Dispose of contents/ container to an approved waste disposal plant.

### 2.3 Other information

Vapors may form explosive mixture with air. Contact with eyes may cause irritation. May cause irritation of respiratory tract.

This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This preparation contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixtures

| Chemical Name | EC-No | CAS-No | Weight % | Classification (67/548) | Classification (Reg. 1272/2008) | REACH Registration Number |
|---|---|---|---|---|---|---|
| Cyclohexane | 203-806-2 | 110-82-7 | 15-25 | F; R11<br>Xi; R38<br>N; R50-53<br>Xn; R65<br>R67 | Skin Irrit. 2 (H315) STOT SE 3 (H336) Asp. Tox. 1 (H304) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) Flam. Liq. 2 (H225) GHS02,GHS08,GHS07,GHS09 (Dgr) | no data available |
| Ethylacetate | 205-500-4 | 141-78-6 | 8-15 | F; R11<br>Xi; R36<br>R66<br>R67 | Eye Irrit. 2 (H319) STOT SE 3 (H336) Flam. Liq. 2 (H225) GHS02,GHS07 (Dgr) | no data available |
| Naphtha (petroleum), hydrotreated light | 265-151-9 | 64742-49-0 | 20-35 | F; R11<br>Xn; R65<br>Xi; R38<br>N; R51/53<br>R67 | Flam. Liq. 2 (H225) Asp. Tox. 1 (H304) Skin Irrit. 2 (H315) Aquatic Chronic 2 (H411) STOT SE 3 (H336) | no data available |

For the full text of R-phrases and H-Statements see Section 16

## SECTION 4. FIRST AID MEASURES

### 4.1 Description of first-aid measures

**Eye contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms develop obtain medical attention.

**Skin contact** Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms develop obtain medical attention.

**Ingestion** Immediate medical attention is required. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Wash out mouth with water and give 100 - 200 ml of water to drink.

**Inhalation** Remove patient from exposure, keep warm and at rest. If symptoms develop obtain medical attention.

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

**Main Symptoms** Aspiration hazard if swallowed - can enter lungs and cause damage. Irritating to skin. May cause irritation of respiratory tract. Contact with eyes may cause irritation. Vapors may cause drowsiness and dizziness.

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

**Notes to physician** Treat symptomatically.

## SECTION 5. FIRE-FIGHTING MEASURES

### 5.1 Extinguishing media

**Suitable Extinguishing Media**
Water spray, dry chemical, carbon dioxide ($CO_2$), or foam

**Extinguishing media which shall not be used for safety reasons**
Do not use water jet.

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

Vapors may form explosive mixtures with air. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). May give off toxic fumes in fire: Carbon monoxide (CO), Carbon dioxide ($CO_2$), Hydrocarbons.

### 5.3 Advice for firefighters

As in any fire, wear self-contained breathing apparatus and full protective gear. Cool containers / tanks with water spray.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

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

Remove all sources of ignition. Ensure adequate ventilation. Use only non-sparking tools. Take precautionary measures against static discharges. Avoid breathing vapors or mists. Avoid contact with the skin and the eyes. Wear protective gloves/clothing and eye/face protection.

### 6.2 Environmental precautions

Avoid release to the environment. Local authorities should be advised if significant spillages cannot be contained.

### 6.3 Methods and materials for containment and cleaning up

Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Use only non-sparking tools.

After cleaning, flush away traces with water

### 6.4 Reference to other sections

See Section 8. See also section 13.

## SECTION 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Keep away from open flames, hot surfaces and sources of ignition. Ensure adequate ventilation. Take precautionary measures against static discharges. Avoid breathing vapors or mists. Avoid contact with skin and eyes. Wear personal protective equipment. For personal protection see section 8.

Do not eat, drink or smoke during work. Wash thoroughly after handling.

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

Keep away from heat and sources of ignition. Keep away from direct sunlight. Keep only in the original container/package in a cool well-ventilated place. storage temperature 10-20 °C. Shelf life 12 months. Storage Container: Stainless steel. Aluminium.

### 7.3 Specific end uses

Primers

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

| Chemical Name | Cyclohexane<br>110-82-7 |
|---|---|
| **European Union** | TWA: 200 ppm TWA: 700 mg/m$^3$ |
| **The United Kingdom** | STEL: 300 ppm STEL: 1050 mg/m$^3$<br>TWA: 100 ppm TWA: 350 mg/m$^3$ |
| **France** | VME: 200 ppm VME: 700 mg/m$^3$<br>VLCT: 375 ppm VLCT: 1300 mg/m$^3$ |
| **Spain** | VLA-ED: 200 ppm VLA-ED: 700 mg/m$^3$ |
| **Germany** | MAK: 200 ppm MAK: 700 mg/m$^3$<br>Ceiling / Peak: 800 ppm Ceiling / Peak: 2800 mg/m$^3$<br>TWA: 200 ppm TWA: 700 mg/m$^3$ |
| **Italy** | TWA: 100 ppm TWA: 350 mg/m$^3$ |
| **Portugal** | TWA: 100 ppm |
| **The Netherlands** | STEL: 1400 mg/m$^3$<br>TWA: 700 mg/m$^3$ |
| **Finland** | TWA: 100 ppm TWA: 350 mg/m$^3$<br>STEL: 250 ppm STEL: 875 mg/m$^3$ |
| **Denmark** | TWA: 50 ppm TWA: 172 mg/m$^3$ |
| **Austria** | STEL 800 ppm STEL 2800 mg/m$^3$<br>MAK: 200 ppm MAK: 700 mg/m$^3$ |
| **Switzerland** | STEL: 800 ppm STEL: 2800 mg/m$^3$<br>MAK: 200 ppm MAK: 700 mg/m$^3$ |
| **Poland** | NDSCh: 1000 mg/m$^3$<br>NDS: 300 mg/m$^3$ |
| **Norway** | TWA: 150 ppm TWA: 525 mg/m$^3$<br>STEL: 187.5 ppm STEL: 656.25 mg/m$^3$ |
| **Ireland** | TWA: 200 ppm TWA: 700 mg/m$^3$ |
| **Chemical Name** | **Ethylacetate<br>141-78-6** |
| **The United Kingdom** | STEL: 400 ppm<br>TWA: 200 ppm |
| **France** | VME: 400 ppm VME: 1400 mg/m$^3$ |
| **Spain** | VLA-ED: 400 ppm VLA-ED: 1460 mg/m$^3$ |
| **Germany** | MAK: 400 ppm MAK: 1500 mg/m$^3$<br>Ceiling / Peak: 800 ppm Ceiling / Peak: 3000 mg/m$^3$<br>TWA: 400 ppm TWA: 1500 mg/m$^3$ |
| **Portugal** | TWA: 400 ppm |
| **Finland** | TWA: 300 ppm TWA: 1100 mg/m$^3$<br>STEL: 500 ppm STEL: 1800 mg/m$^3$ |
| **Denmark** | TWA: 150 ppm TWA: 540 mg/m$^3$ |
| **Austria** | STEL 600 ppm STEL 2100 mg/m$^3$<br>MAK: 300 ppm MAK: 1050 mg/m$^3$ |
| **Switzerland** | STEL: 800 ppm STEL: 2800 mg/m$^3$<br>MAK: 400 ppm MAK: 1400 mg/m$^3$ |
| **Poland** | NDSCh: 600 mg/m$^3$<br>NDS: 200 mg/m$^3$ |
| **Norway** | TWA: 150 ppm TWA: 550 mg/m$^3$<br>STEL: 187.5 ppm STEL: 687.5 mg/m$^3$ |
| **Ireland** | TWA: 200 ppm<br>STEL: 400 ppm |

**Derived No Effect Level (DNEL)** No information available.

**Predicted No Effect Concentration (PNEC)** No information available.

### 8.2 Exposure controls

**Appropriate engineering controls** Provide adequate ventilation, including appropriate local extraction, to ensure that occupational exposure limits are not exceeded.

### Personal protective equipment

| | |
|---|---|
| **Eye Protection** | Tightly fitting safety goggles. (EN 166) |
| **Hand Protection** | Protective gloves. (EN 374) |
| **Skin and body protection** | Long sleeved clothing. Rubber or plastic boots. |
| **Respiratory protection** | In case of insufficient ventilation wear suitable respiratory equipment. (BS EN 14387:2004+A1) |

**Hygiene measures** Handle in accordance with good industrial hygiene and safety practice.

**Environmental Exposure Controls** Avoid release to the environment. Local authorities should be advised if significant spillages cannot be contained.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**9.1 Information on basic physical and chemical properties**

| | |
|---|---|
| **Physical state** | Liquid |
| **Odor** | Petroleum distillates |
| **Color** | yellow |
| **Odor Threshold** | No information available |

| **Property** | **Values** | **Remarks • Methods** |
|---|---|---|
| **pH** | | No information available |
| **Melting/freezing point** | | No information available |
| **Freezing Point** | | No information available |
| **Boiling point/boiling range** | | No information available |
| **Flash Point** | -26 °C | |
| **Evaporation rate** | | No information available |
| **Flammability (solid, gas)** | | Not applicable |
| **Flammability Limits in Air** | | |
| **upper flammability limit** | 7.4 (%v/v) | |
| **lower flammability limit** | 1.1 (%v/v) | |
| **Vapor pressure** | 17.20 | @ 20°C (kPa) |
| **Vapor density** | > 1 | (Air = 1.0) |
| **Relative density** | | No information available |
| **Water solubility** | | Immiscible |
| **Solubility in other solvents** | | No information available |
| **Partition coefficient: n-octanol/water** | | No information available |
| **Autoignition temperature** | >200 °C | |
| **Decomposition temperature** | | No information available |
| **Viscosity, kinematic** | | No information available |
| **Viscosity, dynamic** | 500 +/- 100 | mPa s |

| | |
|---|---|
| **Explosive properties** | May form explosive mixtures with air. |
| **Oxidizing Properties** | No information available |

**9.2 Other information**

| | |
|---|---|
| **Softening point** | No information available |
| **Molecular Weight** | No information available |
| **VOC Content(%)** | No information available |
| **Density** | No information available |
| **Bulk Density** | No information available |

## SECTION 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

No data available.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

No information available.

### 10.4 Conditions to Avoid

Heat, flames and sparks

### 10.5 Incompatible Materials

Water.

### 10.6 Hazardous Decomposition Products

May give off toxic fumes in fire: Carbon monoxide (CO), Carbon dioxide ($CO_2$), Hydrocarbons.

## SECTION 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

**Acute toxicity**

| Chemical Name | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|---|---|---|---|
| Cyclohexane | >5000 mg/kg ( Rat ) | >2000 mg/kg ( Rabbit ) | 13.9 mg/L ( Rat ) 4 h |
| Ethylacetate | 5620 mg/kg ( Rat ) | >18000 mg/kg ( Rabbit ) >20 mL/kg ( Rabbit ) | |
| Naphtha (petroleum), hydrotreated light | 5000 mg/kg ( Rat ) | 3160 mg/kg ( Rabbit ) | 73680 ppm ( Rat ) 4 h |

**Skin corrosion/irritation** Irritating to skin.

**Serious Damage/Eye Irritation** May cause eye irritation.

**Respiratory or Skin Sensitisation** Not Classified

**Mutagenicity** Not Classified

**Carcinogenicity** Not classified

**Reproductive toxicity** Not classified.

**STOT - Single exposure** May cause drowsiness or dizziness.

**STOT - Repeated exposure** Not classified.

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

**Other information** No information available.

## SECTION 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

| Chemical Name | Toxicity to algae | Toxicity to fish | Toxicity to daphnia and other aquatic invertebrates |
|---|---|---|---|
| Cyclohexane | >500: 72 h Desmodesmus subspicatus mg/L EC50 | 23.03-42.07: 96 h Pimephales promelas mg/L LC50 static 24.99-44.69: 96 h Lepomis macrochirus mg/L LC50 static 3.96-5.18: 96 h Pimephales promelas mg/L LC50 flow-through 48.87-68.76: 96 h Poecilia reticulata mg/L LC50 static | >400: 24 h Daphnia magna mg/L EC50 |
| Ethylacetate | 3300: 48 h Desmodesmus subspicatus mg/L EC50 | 220-250: 96 h Pimephales promelas mg/L LC50 flow-through 352-500: 96 h Oncorhynchus mykiss mg/L LC50 semi-static 484: 96 h Oncorhynchus mykiss mg/L LC50 flow-through | 560: 48 h Daphnia magna mg/L EC50 Static |
| Naphtha (petroleum), hydrotreated light | | | 2.6: 96 h Chaetogammarus marinus mg/L LC50 |

WGK Classification = 2

### 12.2 Persistence and degradability

Not readily biodegradable.

### 12.3 Bioaccumulative potential

| Chemical Name | log Pow |
|---|---|
| Cyclohexane | 3.44 |
| Ethylacetate | 0.6 |

### 12.4 Mobility in soil

The product is insoluble and floats on water.

### 12.5 Results of PBT and vPvB assessment

This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This preparation contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

### 12.6 Other adverse effects

No information available.

## SECTION 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

**Waste from residues / unused products** Dispose of as hazardous waste in compliance with local and national regulations. Dispose of in accordance with local regulations.

**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal.

## SECTION 14. TRANSPORT INFORMATION

| | ADR/RID/ADN | ICAO/IATA | IMDG / IMO |
|---|---|---|---|
| **14.1 UN Number** | 1133 | 1133 | 1133 |
| **14.2 Proper shipping name** | Adhesives. | Adhesives. | Adhesives. |
| **14.3 Transport hazard class(es)** | 3 | 3 | 3 |
| **14.4 Packing Group** | II | II | II |
| **14.5 Environmental Hazards** | Marine pollutant | Marine pollutant | Marine pollutant |
| **14.6 Special precautions for users** | | May form explosive mixtures with air. | |
| **14.7 Transport in bulk according to MARPOL 73/78 and the IBC Code** | | - | |

## SECTION 15. REGULATORY INFORMATION

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

WGK Classification = 2

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006. Classification according to Regulation (EC) No 1272/2008.

**15.2 Chemical Safety Assessment**

Chemical Safety Assessment has not been carried out.

## SECTION 16. OTHER INFORMATION

**Full text of R-phrases referred to under sections 2 and 3**
R11 - Highly flammable
R36 - Irritating to eyes
R38 - Irritating to skin
R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R65 - Harmful: may cause lung damage if swallowed
R66 - Repeated exposure may cause skin dryness or cracking
R67 - Vapors may cause drowsiness and dizziness

**Full text of H-Statements referred to under sections 2 and 3**
H225 - Highly flammable liquid and vapor
H304 - May be fatal if swallowed and enters airways
H315 - Causes skin irritation
H336 - May cause drowsiness or dizziness
H411 - Toxic to aquatic life with long lasting effects
H319 - Causes serious eye irritation
H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects

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**Revision Note** not applicable.

**This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.**