

RENOLIT ALKORTEC 81036

## SAFETY DATA SHEET

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

Issuing date 24-Nov-2011

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

#### 1.1 Product identifier

Product name RENOLIT ALKORTEC 81036

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

Recommended Use EVA/EBA/PVC Seam sealer

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](mailto: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

Eye Irrit. 2; H319  
STOT SE 3; H335  
Flam. Liq. 2; H225

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

F - Highly flammable

Xi - Irritant

R11; R19; R36/37

**2.2 Label elements**



**Signal Word**

Danger

**Hazard Statements**

H225 - Highly flammable liquid and vapor

H319 - Causes serious eye irritation

H335 - May cause respiratory irritation

EUH019 - May form explosive peroxides

**Precautionary statements**

P102 - Keep out of reach of children

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

P273 - Avoid release to the environment

P243 - Take precautionary measures against static discharge

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

Continue rinsing

P313 - Get medical advice/ attention

**2.3 Other information**

Vapors may form explosive mixture with air.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	EC-No	CAS-No	Weight %	Classification (67/548)	Classification (Reg. 1272/2008)	REACH Registration Number
Tetrahydrofuran	203-726-8	109-99-9	70-90	F; R11-19 Xi; R36/37	Eye Irrit. 2 (H319) STOT SE 3 (H335) Flam. Liq. 2 (H225) GHS02,GHS07 (Dgr)	no data available
Titanium dioxide	236-675-5	13463-67-7	1-5	-	-	no data available
Silicon dioxide	231-545-4	7631-86-9	1-5	-	-	no data available
Barium soluble compounds	-	RR-0555-0	0.01-0.1	Xn; R20/R22	Acute Tox. 4 (H302) Acute Tox. 4 (H332)	no data available
2-(2-butoxyethoxy)ethanol	203-961-6	112-34-5	0.01-0.1	Xi; R36	Eye Irrit. 2 (H319) GHS07 (Wng)	no data available
Butyl acrylate	205-480-7	141-32-2	0.01-0.1	R10 Xi; R36/37/38 R43	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317) STOT SE 3 (H335) Flam. Liq. 3 (H226) GHS02,GHS07 (Wng)	no data available
Zinc dibenzoate	209-047-3	553-72-0	0.01-0.01	N; R51/53	Aquatic Chronic 2 (H411) GHS09	no data available
Phenol	203-632-7	108-95-2	0.001-0.01	T; R23/24/25 C; R34 Xn; R48/20/21/22 Muta.Cat.3; R68	Acute Tox. 3 (H301) Acute Tox. 3 (H311) Acute Tox. 3 (H331) Skin Corr. 1B (H314) Muta. 2 (H341) STOT RE 2 (H373) GHS06,GHS08,GHS05 (Dgr)	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**

<b>Eye contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention if irritation persists.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention if irritation persists. Wash contaminated clothing before reuse.
<b>Ingestion</b>	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. Get medical attention.
<b>Inhalation</b>	Remove patient from exposure, keep warm and at rest. Get medical attention if irritation persists

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

<b>Main Symptoms</b>	Irritating to eyes. Irritating to respiratory system. Prolonged skin contact may cause skin irritation.
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**4.3 Indication of any immediate medical attention and special treatment needed**

<b>Notes to physician</b>	Treat symptomatically
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## **SECTION 5. FIRE-FIGHTING MEASURES**

### **5.1 Extinguishing media**

#### **Suitable Extinguishing Media**

Use CO<sub>2</sub>, dry chemical, 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<sub>2</sub>).

### **5.3 Advice for firefighters**

As in any fire, wear self-contained breathing apparatus and full protective gear

## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

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

Remove all sources of ignition. Ensure adequate ventilation. Take precautionary measures against static discharges. Avoid contact with the skin and the eyes. Avoid breathing vapors or mists. 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 spill with inert material (e.g. dry sand or earth), then place in a chemical waste container.

### **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. Use only in an area containing flame proof equipment. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Avoid contact with skin and eyes. Avoid breathing vapors or mists. Wear personal protective equipment.

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

Keep container tightly closed in a dry and well-ventilated place. Keep away from direct sunlight. Keep away from heat and sources of ignition.

### **7.3 Specific end uses**

EVA/EBA/PVC Seam sealer

<b>SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION</b>
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**8.1 Control parameters**

<b>Component</b>	Tetrahydrofuran 109-99-9 ( 70-90 )
<b>European Union</b>	S* TWA 50 ppm TWA 150 mg/m <sup>3</sup> STEL 100 ppm STEL 300 mg/m <sup>3</sup>
<b>The United Kingdom</b>	STEL: 100 ppm STEL: 300 mg/m <sup>3</sup> TWA: 50 ppm TWA: 150 mg/m <sup>3</sup> Skin
<b>France</b>	VME: 50 ppm VME: 150 mg/m <sup>3</sup> VLCT: 100 ppm VLCT: 300 mg/m <sup>3</sup>
<b>Spain</b>	S* VLA-EC: 100 ppm VLA-EC: 300 mg/m <sup>3</sup> VLA-ED: 50 ppm VLA-ED: 150 mg/m <sup>3</sup>
<b>Germany</b>	MAK: 50 ppm MAK: 150 mg/m <sup>3</sup> Ceiling / Peak: 100 ppm Ceiling / Peak: 300 mg/m <sup>3</sup> Skin
<b>Italy</b>	TWA: 50 ppm TWA: 150 mg/m <sup>3</sup> STEL: 100 ppm STEL: 300 mg/m <sup>3</sup> Skin
<b>Portugal</b>	STEL: 100 ppm TWA: 50 ppm
<b>The Netherlands</b>	Skin STEL: 600 mg/m <sup>3</sup> TWA: 300 mg/m <sup>3</sup>
<b>Finland</b>	TWA: 50 ppm TWA: 150 mg/m <sup>3</sup> STEL: 100 ppm STEL: 300 mg/m <sup>3</sup> Skin
<b>Denmark</b>	TWA: 50 ppm TWA: 148 mg/m <sup>3</sup> Skin
<b>Austria</b>	Skin STEL 100 ppm STEL 300 mg/m <sup>3</sup> MAK: 50 ppm MAK: 150 mg/m <sup>3</sup>
<b>Switzerland</b>	Skin STEL: 100 ppm STEL: 300 mg/m <sup>3</sup> MAK: 50 ppm MAK: 150 mg/m <sup>3</sup>
<b>Poland</b>	NDSch: 300 mg/m <sup>3</sup> NDS: 150 mg/m <sup>3</sup>
<b>Norway</b>	TWA: 50 ppm TWA: 150 mg/m <sup>3</sup> Skin
<b>Ireland</b>	STEL: 75 ppm STEL: 187.5 mg/m <sup>3</sup> TWA: 50 ppm TWA: 150 mg/m <sup>3</sup> STEL: 100 ppm STEL: 300 mg/m <sup>3</sup> Skin
<b>Component</b>	Titanium dioxide 13463-67-7 ( 1-5 )
<b>The United Kingdom</b>	STEL: 30 mg/m <sup>3</sup> STEL: 12 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup> TWA: 4 mg/m <sup>3</sup>
<b>France</b>	TWA: 10 mg/m <sup>3</sup>
<b>Spain</b>	TWA: 10 mg/m <sup>3</sup>
<b>Germany</b>	Skin
<b>Portugal</b>	TWA: 10 mg/m <sup>3</sup>
<b>Denmark</b>	TWA: 6 mg/m <sup>3</sup>
<b>Austria</b>	STEL 10 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup>
<b>Switzerland</b>	TWA: 3 mg/m <sup>3</sup>
<b>Poland</b>	NDSch: 30 mg/m <sup>3</sup> TWA: 10.0 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup>
<b>Norway</b>	TWA: 5 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>
<b>Ireland</b>	TWA: 10 mg/m <sup>3</sup> TWA: 4 mg/m <sup>3</sup>

<b>Component</b>	Silicon dioxide 7631-86-9 ( 1-5 )
<b>The United Kingdom</b>	STEL: 18 mg/m <sup>3</sup> STEL: 7.2 mg/m <sup>3</sup> TWA: 6 mg/m <sup>3</sup> TWA: 2.4 mg/m <sup>3</sup>
<b>Germany</b>	TWA: 4 mg/m <sup>3</sup>
<b>Austria</b>	TWA: 4 mg/m <sup>3</sup> TWA: 0.3 mg/m <sup>3</sup>
<b>Switzerland</b>	TWA: 4 mg/m <sup>3</sup> TWA: 0.3 mg/m <sup>3</sup>
<b>Norway</b>	TWA: 1.5 mg/m <sup>3</sup> STEL: 3 mg/m <sup>3</sup>
<b>Ireland</b>	TWA: 6 mg/m <sup>3</sup> TWA: 2.4 mg/m <sup>3</sup>
<b>Component</b>	Barium soluble compounds RR-0555-0 ( 0.01-0.1 )
<b>European Union</b>	TWA: 0.5mg/m <sup>3</sup>
<b>Component</b>	2-(2-butoxyethoxy)ethanol 112-34-5 ( 0.01-0.1 )
<b>European Union</b>	TWA: 10 ppm TWA: 67.5 mg/m <sup>3</sup>
<b>The United Kingdom</b>	STEL: 15 ppm STEL: 101.2 mg/m <sup>3</sup> TWA: 10 ppm TWA: 67.5 mg/m <sup>3</sup>
<b>France</b>	VME: 10 ppm VME: 67.5 mg/m <sup>3</sup> VLCT: 15 ppm VLCT: 101.2 mg/m <sup>3</sup>
<b>Spain</b>	VLA-EC: 15 ppm VLA-EC: 101.2 mg/m <sup>3</sup> VLA-ED: 10 ppm VLA-ED: 67.5 mg/m <sup>3</sup>
<b>Germany</b>	MAK: 10 ppm MAK: 67 mg/m <sup>3</sup> Ceiling / Peak: 15 ppm Ceiling / Peak: 100.5 mg/m <sup>3</sup> TWA: 100 mg/m <sup>3</sup>
<b>Italy</b>	TWA: 10 ppm TWA: 67.5 mg/m <sup>3</sup> STEL: 15 ppm STEL: 101.2 mg/m <sup>3</sup>
<b>The Netherlands</b>	Skin STEL: 100 mg/m <sup>3</sup> TWA: 50 mg/m <sup>3</sup>
<b>Finland</b>	TWA: 10 ppm TWA: 68 mg/m <sup>3</sup>
<b>Denmark</b>	TWA: 10 ppm TWA: 67.5 mg/m <sup>3</sup>
<b>Austria</b>	STEL 15 ppm STEL 101.2 mg/m <sup>3</sup> MAK: 10 ppm MAK: 67.5 mg/m <sup>3</sup>
<b>Switzerland</b>	STEL: 15 ppm STEL: 101.2 mg/m <sup>3</sup> MAK: 10 ppm MAK: 67 mg/m <sup>3</sup>
<b>Poland</b>	NDSCh: 100 mg/m <sup>3</sup> NDS: 67 mg/m <sup>3</sup>
<b>Norway</b>	TWA: 10 ppm TWA: 68 mg/m <sup>3</sup> STEL: 20 ppm STEL: 102 mg/m <sup>3</sup>
<b>Ireland</b>	TWA: 10 ppm TWA: 67.5 mg/m <sup>3</sup> STEL: 15 ppm STEL: 101.2 mg/m <sup>3</sup>
<b>Component</b>	Butyl acrylate 141-32-2 ( 0.01-0.1 )
<b>European Union</b>	TWA 2 ppm TWA 11 mg/m <sup>3</sup> STEL 10 ppm STEL 53 mg/m <sup>3</sup>
<b>The United Kingdom</b>	STEL: 5 ppm STEL: 26 mg/m <sup>3</sup> TWA: 1 ppm TWA: 5 mg/m <sup>3</sup>
<b>France</b>	VME: 2 ppm VME: 11 mg/m <sup>3</sup> VLCT: 10 ppm VLCT: 53 mg/m <sup>3</sup>
<b>Spain</b>	VLA-EC: 10 ppm VLA-EC: 53 mg/m <sup>3</sup> VLA-ED: 2 ppm VLA-ED: 11 mg/m <sup>3</sup>
<b>Germany</b>	MAK: 2 ppm MAK: 11 mg/m <sup>3</sup> Ceiling / Peak: 4 ppm Ceiling / Peak: 22 mg/m <sup>3</sup> TWA: 2 ppm TWA: 11 mg/m <sup>3</sup>
<b>Italy</b>	TWA: 2 ppm TWA: 11 mg/m <sup>3</sup> STEL: 10 ppm STEL: 53 mg/m <sup>3</sup>
<b>Portugal</b>	TWA: 2 ppm
<b>The Netherlands</b>	STEL: 53 mg/m <sup>3</sup> TWA: 11 mg/m <sup>3</sup>
<b>Finland</b>	TWA: 2 ppm TWA: 11 mg/m <sup>3</sup> STEL: 10 ppm STEL: 53 mg/m <sup>3</sup>
<b>Denmark</b>	TWA: 2 ppm TWA: 11 mg/m <sup>3</sup>
<b>Austria</b>	STEL 10 ppm STEL 53 mg/m <sup>3</sup> MAK: 2 ppm MAK: 11 mg/m <sup>3</sup>

Switzerland	STEL: 4 ppm STEL: 22 mg/m <sup>3</sup> MAK: 2 ppm MAK: 11 mg/m <sup>3</sup>
Poland	NDSch: 30 mg/m <sup>3</sup> NDS: 11 mg/m <sup>3</sup>
Norway	TWA: 2 ppm TWA: 11 mg/m <sup>3</sup> STEL: 4 ppm STEL: 16.5 mg/m <sup>3</sup>
Ireland	TWA: 2 ppm TWA: 11 mg/m <sup>3</sup> STEL: 10 ppm STEL: 53 mg/m <sup>3</sup>
Component	Phenol 108-95-2 ( 0.001-0.01 )
The United Kingdom	STEL: 6 ppm STEL: 23.4 mg/m <sup>3</sup> TWA: 2 ppm TWA: 7.8 mg/m <sup>3</sup> Skin
France	VME: 2 ppm VME: 7.8 mg/m <sup>3</sup> VLCT: 4 ppm VLCT: 15.6 mg/m <sup>3</sup>
Spain	S* VLA-ED: 2 ppm VLA-ED: 8 mg/m <sup>3</sup>
Germany	Skin TWA: 2 ppm TWA: 8 mg/m <sup>3</sup>
Italy	TWA: 2 ppm TWA: 7.8 mg/m <sup>3</sup> Skin
Portugal	TWA: 5 ppm
The Netherlands	Skin TWA: 8 mg/m <sup>3</sup>
Finland	TWA: 2 ppm TWA: 8 mg/m <sup>3</sup> STEL: 5 ppm STEL: 20 mg/m <sup>3</sup> Skin
Denmark	TWA: 1 ppm TWA: 4 mg/m <sup>3</sup> Skin
Austria	Skin MAK: 2 ppm MAK: 7.8 mg/m <sup>3</sup>
Switzerland	Skin STEL: 5 ppm STEL: 19 mg/m <sup>3</sup> MAK: 5 ppm MAK: 19 mg/m <sup>3</sup>
Poland	NDS: 7.8 mg/m <sup>3</sup> Skin
Norway	TWA: 1 ppm TWA: 4 mg/m <sup>3</sup> Skin STEL: 3 ppm STEL: 8 mg/m <sup>3</sup>
Ireland	TWA: 2 ppm TWA: 8 mg/m <sup>3</sup> Skin

**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**

Wear protective gloves/ protective clothing

**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	Characteristic
Color	No information available
Odor Threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Methods</u>
pH		No information available
Melting/freezing point	-108 °C	(THF)
Freezing Point		No information available
Boiling point/boiling range	65-67 °C	(THF)
Flash Point	-17 °C	Closed cup (THF)
Evaporation rate		No information available
Flammability (solid, gas)		Not applicable
Flammability Limits in Air		No information available
upper flammability limit	11.8	
lower flammability limit	1.8	
Vapor pressure	21.598 (tetrahydrofuran)	kPa @ 25 °C
Vapor density		No information available
Relative density	0.89 (tetrahydrofuran)	@ 20 °C
Water solubility		Miscible (THF)
Solubility in other solvents		No information available
Partition coefficient: n-octanol/water		No information available
Autoignition temperature		No information available
Decomposition temperature		No information available
Viscosity, kinematic		No information available
Viscosity, dynamic		No information available
Explosive properties	No information available	
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. May form explosive peroxides.

### 10.3 Possibility of hazardous reactions

No information available



**10.4 Conditions to Avoid**

Heat, flames and sparks

**10.5 Incompatible Materials**

Strong oxidizing agents. Alkalis.

**10.6 Hazardous Decomposition Products**

May give off toxic fumes in fire. Carbon oxides.

**SECTION 11. TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects****Acute toxicity**

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Tetrahydrofuran	1650 mg/kg ( Rat )		180 mg/L ( Rat ) 1 h 53.9 mg/L ( Rat ) 4 h
Titanium dioxide	10000 mg/kg ( Rat )		
Silicon dioxide	5000 mg/kg ( Rat )	2000 mg/kg ( Rabbit )	2.2 mg/L ( Rat ) 1 h
2-(2-butoxyethoxy)ethanol	3384 mg/kg ( Rat )	2700 mg/kg ( Rabbit )	
Butyl acrylate	3730 mg/kg ( Rat )	3000 mg/kg ( Rabbit )	1970 ppm ( Rat ) 4 h
Phenol	317 mg/kg ( Rat )	525 mg/kg ( Rat ) 630 mg/kg ( Rabbit )	316 mg/m <sup>3</sup> ( Rat ) 4 h

**Skin corrosion/irritation** May cause slight irritation**Serious Damage/Eye Irritation** Irritating to eyes.**Respiratory or Skin Sensitisation** Not Classified**Mutagenicity** Not classified.**Carcinogenicity** Not Rated

Chemical Name	European Union	IARC
Titanium dioxide		Group 2B
Silicon dioxide		Group 3
Butyl acrylate		Group 3
Phenol		Group 3

**Reproductive toxicity** Not Classified**STOT - Single exposure** Irritating to respiratory system**STOT - Repeated exposure** Not classified.**Aspiration hazard** Not Applicable**Other information** No information available

## SECTION 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
Tetrahydrofuran		1970-2360: 96 h Pimephales promelas mg/L LC50 flow-through 2700-3600: 96 h Pimephales promelas mg/L LC50 static	5930: 24 h Daphnia magna mg/L EC50
Silicon dioxide	440: 72 h Pseudokirchneriella subcapitata mg/L EC50	LC50: 5000 mg/L 96 h static (Brachydanio rerio)	7600: 48 h Ceriodaphnia dubia mg/L EC50
2-(2-butoxyethoxy)ethanol	>100: 96 h Desmodesmus subspicatus mg/L EC50	1300: 96 h Lepomis macrochirus mg/L LC50 static	2850: 24 h Daphnia magna mg/L EC50 >100: 48 h Daphnia magna mg/L EC50
Butyl acrylate	5.5: 96 h Pseudokirchneriella subcapitata mg/L EC50	5: 72 h Carassius auratus mg/L LC50 5.2: 96 h Oncorhynchus mykiss mg/L LC50 flow-through	42: 24 h Daphnia magna mg/L EC50 8.2: 48 h Daphnia magna mg/L EC50
Phenol	0.0188 - 0.1044: 96 h Pseudokirchneriella subcapitata mg/L EC50 static 187 - 279: 72 h Desmodesmus subspicatus mg/L EC50 static 46.42: 96 h Pseudokirchneriella subcapitata mg/L EC50	0.00175: 96 h Cyprinus carpio mg/L LC50 semi-static 11.5: 96 h Lepomis macrochirus mg/L LC50 semi-static 11.9-25.3: 96 h Lepomis macrochirus mg/L LC50 flow-through 11.9-50.5: 96 h Pimephales promelas mg/L LC50 flow-through 13.5: 96 h Lepomis macrochirus mg/L LC50 static 20.5-25.6: 96 h Pimephales promelas mg/L LC50 static 23.4-36.6: 96 h Oryzias latipes mg/L LC50 static 27.8: 96 h Brachydanio rerio mg/L LC50 31: 96 h Poecilia reticulata mg/L LC50 semi-static 32: 96 h Pimephales promelas mg/L LC50 33.9-43.3: 96 h Oryzias latipes mg/L LC50 flow-through 34.09-47.64: 96 h Poecilia reticulata mg/L LC50 static 4.23-7.49: 96 h Oncorhynchus mykiss mg/L LC50 semi-static 5.0-12.0: 96 h Oncorhynchus mykiss mg/L LC50 5.449-6.789: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 7.5-14: 96 h Oncorhynchus mykiss mg/L LC50 static	10.2 - 15.5: 48 h Daphnia magna mg/L EC50 4.24 - 10.7: 48 h Daphnia magna mg/L EC50 Static

### 12.2 Persistence and degradability

No information available

### 12.3 Bioaccumulative potential

No information available

Chemical Name	log Pow
Tetrahydrofuran	0.45
Butyl acrylate	2.38
Phenol	1.47

### 12.4 Mobility in soil

No information available

**12.5 Results of PBT and vPvB assessment**

No information available

**12.6 Other adverse effects**

No information available

**SECTION 13. DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods**

**Waste from residues / unused products** 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
<b>14.1 UN Number</b>	1133	1133	1133
<b>14.2 Proper shipping name</b>	Adhesives: Contains: Tetrahydrofuran	Adhesives: Contains: Tetrahydrofuran	Adhesives: Contains: Tetrahydrofuran
<b>14.3 Transport hazard class(es)</b>	3	3	3
<b>14.4 Packing Group</b>	II	II	II
<b>14.5 Environmental Hazards</b>	Not Classified	Not Classified	Not Classified
<b>14.6 Special precautions for users</b>		May form explosive mixtures with air	
<b>14.7 Transport in bulk according to MARPOL 73/78 and the IBC Code</b>		-	

**SECTION 15. REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

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**

No information available

**SECTION 16. OTHER INFORMATION****Full text of R-phrases referred to under sections 2 and 3**

R10 - Flammable  
R11 - Highly flammable  
R19 - May form explosive peroxides  
R20/22 - Harmful by inhalation and if swallowed  
R23/24/25 - Toxic by inhalation, in contact with skin and if swallowed  
R34 - Causes burns  
R36 - Irritating to eyes  
R36/37 - Irritating to eyes and respiratory system  
R36/37/38 - Irritating to eyes, respiratory system and skin  
R43 - May cause sensitization by skin contact  
R48/20/21/22 - Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed  
R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment  
R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment  
R60 - May impair fertility  
R61 - May cause harm to the unborn child  
R68 - Possible risk of irreversible effects

**Full text of H-Statements referred to under sections 2 and 3**

H225 - Highly flammable liquid and vapor  
H319 - Causes serious eye irritation  
H335 - May cause respiratory irritation  
H226 - Flammable liquid and vapor  
H301 - Toxic if swallowed  
H302 - Harmful if swallowed  
H311 - Toxic in contact with skin  
H314 - Causes severe skin burns and eye damage  
  
H317 - May cause an allergic skin reaction  
H331 - Toxic if inhaled  
H332 - Harmful if inhaled  
H335 - May cause respiratory irritation  
H360FD - May damage fertility. May damage the unborn child  
H373 - May cause damage to organs through prolonged or repeated exposure  
H411 - Toxic to aquatic life with long lasting effects  
H412 - Harmful to aquatic life with long lasting effects

<b>Issuing date</b>	24-Nov-2011
<b>Revision Date</b>	25-Nov-2011
<b>Revision Note</b>	not applicable.

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