

**Safety Data Sheet**  
according to Regulation (EG) No. 1907/2006 (REACH)

Revision Date: 28.10.2014

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

**1.1 Product identifiers**

Product number: 31294  
Product name: ENTELLAN

REACH No. : A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

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

Identified uses : Laboratory chemicals, Manufacture of substances

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

GATT-KOLLER G.m.b.H.  
Swarovskistr. 74  
A-6067 Absam  
Tel.: 0043-5223/44216-0 Fax: 0043-5223/43216 office@gatt-koller.com

**1.4 Emergency telephone number**

Emergency Phone : + 49 551 19240, + 43 1 406 4343

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**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

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

Flammable liquids (Category 3), H226  
Acute toxicity, Inhalation (Category 4), H332  
Acute toxicity, Dermal (Category 4), H312  
Skin irritation (Category 2), H315  
For the full text of the H-Statements mentioned in this Section, see Section 16.

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

Xn	Harmful	R10
		R20/21
Xi	Irritant	R38

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

**2.2 Label elements**



Pictogram

Signal word

Warning

Hazard statement(s)

H226

Flammable liquid and vapour.

H312

Harmful in contact with skin.

H315

Causes skin irritation.

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H332 Harmful if inhaled.

Precautionary statement(s)  
P280 Wear protective gloves/ protective clothing.  
Supplemental Hazard Statements none

**2.3 Other hazards - none**

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**SECTION 3: Composition/information on ingredients**

**3.2 Mixtures**

**Hazardous ingredients according to Regulation (EC) No 1272/2008**

Component	Classification	Concentration
Xylene mixture of isomers		
CAS-No. 1330-20-7	Flam. Liq. 3; Acute Tox. 4;	<= 100 %
EC-No. 215-535-7	Skin Irrit. 2; H226, H312 +	
INDEX-No. 601-022-00-9	H332. H315	

**Hazardous ingredients according to Directive 1999/45/EC**

Component	Classification	Concentration
Xylene mixture of isomers		
CAS-No. 1330-20-7	Xn, R10 - R20/21 - R38	<= 100 %
EC-No. 215-535-7		
INDEX-No. 601-022-00-9		

For the full text of the H-Statements and R-Phrases mentioned in this Section, see Section 16

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**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

**General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance.

**If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact**

Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed**

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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

no data available

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**SECTION 5: Firefighting measures**

**5.1 Extinguishing media**

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**Suitable extinguishing media**

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

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

Carbon oxides

**5.3 Advice for firefighters**

Wear self contained breathing apparatus for fire fighting if necessary.

**5.4 Further information**

Use water spray to cool unopened containers.

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**SECTION 6: Accidental release measures**

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

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

Remove all sources of ignition. Beware of vapours accumulating to form explosive concentrations.

Vapours can accumulate in low areas.

For personal protection see section 8.

**6.2 Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

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

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

**6.4 Reference to other sections**

For disposal see section 13.

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**SECTION 7: Handling and storage**

**7.1 Precautions for safe handling**

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

For precautions see section 2.2.

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

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

**7.3 Specific end use(s)**

A part from the uses mentioned in section 1.2 no other specific uses are stipulated

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**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

**Components with workplace control parameters**

**8.2 Exposure controls**

**Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**Personal protective equipment**

**Eye/face protection**

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use

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in accordance with applicable laws and good laboratory practices.

Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

**Full contact**

Material: Fluorinated rubber

Minimum layer thickness: 0,7 mm

Break through time: 480 min

Material tested: Vitoject® (KCL 890 / Aldrich Z677698, Size M)

**Splash contact**

Material: Nitrile rubber

Minimum layer thickness: 0,4 mm

Break through time: 35 min

Material tested: Camatril® (KCL 730 / Aldrich Z677442, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

**Body Protection**

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of environmental exposure**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

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**SECTION 9: Physical and chemical properties**

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

a) Appearance	Form: clear, liquid Colour: colourless
b) Odour	no data available
c) Odour Threshold	no data available
d) pH	no data available
e) Melting point/freezing point	< 0 °C
f) Initial boiling point and boiling range	137 - 140 °C - lit.
g) Flash point	25 °C - closed cup
h) Evaporation rate	no data available
i) Flammability (solid, gas)	no data available
j) Upper/lower	Upper explosion limit: 7 %(V)

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flammability or explosive limits	Lower explosion limit: 1,1 %(V)
k) Vapour pressure	24 hPa at 37,70 °C
l) Vapour density	3,67 - (Air = 1.0)
m) Relative density	0,86 g/mL at 25 °C
n) Water solubility	no data available
o) Partition coefficient: n-octanol/water	no data available
p) Auto-ignition temperature	no data available
q) Decomposition temperature	no data available
r) Viscosity	no data available
s) Explosive properties	no data available
t) Oxidizing properties	no data available

**9.2 Other safety information**

Relative vapour density 3,67 - (Air = 1.0)

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**SECTION 10: Stability and reactivity**

**10.1 Reactivity**

no data available

**10.2 Chemical stability**

Stable under recommended storage conditions.

**10.3 Possibility of hazardous reactions**

no data available

**10.4 Conditions to avoid**

Heat, flames and sparks.

**10.5 Incompatible materials**

Strong oxidizing agents

**10.6 Hazardous decomposition products**

Other decomposition products - no data available

In the event of fire: see section 5

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**SECTION 11: Toxicological information**

**11.1 Information on toxicological effects**

**Acute toxicity**

LD50 Oral - rat - 4.300 mg/kg

Remarks: Liver:Other changes. Kidney, Ureter, Bladder:Other changes.

LC50 Inhalation - rat - 4 h - 5000 ppm

LD50 Dermal - rabbit - > 1.700 mg/kg

**Skin corrosion/irritation**

Skin - rabbit

Result: Skin irritation - 24 h

**Serious eye damage/eye irritation**

Eyes - rabbit

Result: Mild eye irritation

**Respiratory or skin sensitisation**

no data available

**Germ cell mutagenicity**

no data available

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**Carcinogenicity**

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Xylene)

**Reproductive toxicity**

no data available

**Specific target organ toxicity - single exposure**

no data available

**Specific target organ toxicity - repeated exposure**

no data available

**Aspiration hazard**

no data available

**Additional Information**

RTECS: Not available

Blurred vision, Incoordination., Headache, Nausea, Vomiting, Dizziness, Weakness, anemia, Prolonged or repeated exposure to skin causes defatting and dermatitis.

Liver - Irregularities - Based on Human Evidence

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**SECTION 12: Ecological information**

**12.1 Toxicity**

Toxicity to fish LC50 - Morone saxatilis - 2 mg/l - 96 h

Toxicity to daphnia and EC50 - Daphnia magna (Water flea) - 75,49 mg/l - 24 h

other aquatic

invertebrates

Toxicity to algae Growth inhibition EC50 - Pseudokirchneriella subcapitata - 72 mg/l - 14 d

**12.2 Persistence and degradability**

no data available

**12.3 Bioaccumulative potential**

no data available

**12.4 Mobility in soil**

no data available

**12.5 Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**12.6 Other adverse effects**

Toxic to aquatic life.

no data available

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**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

**Product**

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

**Contaminated packaging**

Dispose of as unused product.

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**SECTION 14: Transport information**

**14.1 UN number**

ADR/RID: 1866

IMDG: 1866

IATA: 1866

**14.2 UN proper shipping name**

ADR/RID: RESIN SOLUTION

IMDG: RESIN SOLUTION

according to Regulation (EG) No. 1907/2006 (REACH)

### 14.3 Transport hazard class(es)

IATA: 3

IATA: III

IATA: no

D/E

**F-E      S-E**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

storage class : 3

## 15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

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

### Acute toxicity

## Flammable liquids

Flammable liquid and vapour.

Harmful in contact with skin.

Harmful in contact with skin or if inhaled

Causes skin irritation.

Harmful if inhaled.

## Harmful

Flammable.

Harmful by inhalation and in contact with skin.

Irritating to skin.

The information supplied in this data sheet, is based on the present state of our knowledge. The purpose of this information is only to describe the security measures to follow in the handling of the product.

Therefore it does not represent a guarantee about the properties of the product.

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