

# Safety Data Sheet according to (EC) No 1907/2006

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3491 Light Cure Adhesive UV Cure

sds no. : 153581 V005.2 Revision: 20.12.2011 printing date: 16.03.2012

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

## **Product identifier:**

3491 Light Cure Adhesive UV Cure Relevant identified uses of the substance or mixture and uses advised against: Intended use: Ultraviolet adhesive

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

Henkel Limited 2 Bishop Square Business Park AL109EY Herfordshire Hatfield

Great Britain

Phone: +44 1606 593933 Fax-no.: +44 1606 863762

ua-productsafety.uk@uk.henkel.com

#### **Emergency Telephone Number:**

24 Hours Emergency Tel: +44 (0)1442 278497

# **SECTION 2: Hazards identification**

## Classification of the substance or mixture:

Classification (DPD): Xi - Irritant R36/37/38 Irritating to eyes, respiratory system and skin. Xi - Irritant R43 May cause sensitisation by skin contact. N - Dangerous for the environment R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### Label elements (DPD):

N - Dangerous for the environment







### Risk phrases:

R36/37/38 Irritating to eyes, respiratory system and skin. R43 May cause sensitisation by skin contact. R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

# Safety phrases:

S23 Do not breathe vapour/spray. S24/25 Avoid contact with skin and eyes. S36/37 Wear suitable protective clothing and gloves. S51 Use only in well-ventilated areas. S61 Avoid release to the environment. Refer to special instructions/Safety data sheets.

Additional labeling:

For consumer use only: S2 Keep out of the reach of children S46 If swallowed, seek medical advice immediately and show this container or label.

#### Contains:

2-Hydroxyethyl methacrylate, Hydroxypropyl methacrylate, [3-(2,3-Epoxypropoxy)propyl]trimethoxysilane

#### Other hazards:

None if used properly.

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

## General chemical description: UV curing acrylic adhesive

## Declaration of the ingredients according to CLP (EC) No 1272/2008:

| Hazardous components                              | EC Number        | content  | Classification                                       |
|---|------------------|----------|--|
| CAS-No.   | REACH-Reg No.    |          |  |
| Isobornyl acrylate                                | 227-561-6        | 30- 60 % | Serious eye irritation 2                             |
| 5888-33-5   |                  |          | H319   |
|   |                  |          | Skin irritation 2                                    |
|   |                  |          | H315   |
|   |                  |          | Chronic hazards to the aquatic environment 2<br>H411 |
|   |                  |          | Specific target organ toxicity - single              |
|   |                  |          | exposure 3   |
|   |                  |          | H335   |
| Isobornyl methacrylate                            | 231-403-1        | 1- 10 %  | Serious eye irritation 2                             |
| 7534-94-3   |                  |          | H319   |
|   |                  |          | Skin irritation 2                                    |
|   |                  |          | H315   |
|   |                  |          | Specific target organ toxicity - single              |
|   |                  |          | exposure 3   |
|   |                  |          | H335   |
| Acrylic acid                                      | 201-177-9        | 1- 5%    | Acute toxicity 4; Oral                               |
| 79-10-7   | 01-2119452449-31 |          | H302   |
|   |                  |          | Skin corrosion 1A                                    |
|   |                  |          | H314   |
|   |                  |          | Flammable liquids 3                                  |
|   |                  |          | H226   |
|   |                  |          | Acute toxicity 4; Dermal                             |
|   |                  |          | H312   |
|   |                  |          | Acute hazards to the aquatic environment 1           |
|   |                  |          | H400   |
|   |                  |          | Acute toxicity 4; Inhalation<br>H332                 |
| 2-Hydroxyethyl methacrylate                       | 212-782-2        | 1- 10 %  | Serious eye irritation 2                             |
| 868-77-9  | 01-2119490169-29 |          | H319   |
|   |                  |          | Skin irritation 2                                    |
|   |                  |          | H315   |
|   |                  |          | Skin sensitizer 1                                    |
|   |                  |          | H317   |
| [3-(2,3-  | 219-784-2        | 1- 5%    | Serious eye damage/eye irritation 1                  |
| Epoxypropoxy)propyl]trimethoxysilane<br>2530-83-8 | 01-2119513212-58 |          | H318   |

Only dangerous ingredients for which a CLP classification is already available are displayed in this table. For full text of the H - statements and other abbreviations see section 16 "Other information". Substances without classification may have community workplace exposure limits available.

Declaration of ingredients according to DPD (EC) No 1999/45:

| Hazardous components                 | EC Number        | content   | Classification                            |
|--------------------------------------|------------------|-----------|---|
| CAS-No.                              | REACH-Reg No.    |           |   |
| Isobornyl acrylate                   | 227-561-6        | 30 - 60 % | Xi - Irritant; R36/37/38                  |
| 5888-33-5                            |                  |           | N - Dangerous for the environment; R51/53 |
| Isobornyl methacrylate               | 231-403-1        | 1 - 10 %  | N - Dangerous for the environment; R51/53 |
| 7534-94-3                            |                  |           | Xi - Irritant; R36/37/38                  |
| Acrylic acid                         | 201-177-9        | 1 - 5 %   | Xn - Harmful; R20/21/22                   |
| 79-10-7                              | 01-2119452449-31 |           | R10                                       |
|                                      |                  |           | C - Corrosive; R35                        |
|                                      |                  |           | N - Dangerous for the environment; R50    |
| Hydroxypropyl methacrylate           | 248-666-3        | 1 - 5 %   | Xi - Irritant; R36, R43                   |
| 27813-02-1                           |                  |           |   |
| 2-Hydroxyethyl methacrylate          | 212-782-2        | 1 - 10 %  | Xi - Irritant; R36/38                     |
| 868-77-9                             | 01-2119490169-29 |           | R43                                       |
|                                      |                  |           |   |
| [3-(2,3-                             | 219-784-2        | 1 - 5 %   | Xi - Irritant; R41                        |
| Epoxypropoxy)propyl]trimethoxysilane | 01-2119513212-58 |           |   |
| 2530-83-8                            |                  |           |   |

For full text of the R-Phrases indicated by codes see section 16 'Other Information'. Substances without classification may have community workplace exposure limits available.

# **SECTION 4: First aid measures**

Description of first aid measures:

### Inhalation:

Move to fresh air. If symptoms persist, seek medical advice. Consideration should be given to the possible effects of a faulty UV source (Stray radiation, ozone).

#### Skin contact:

Immediately wash skin thoroughly with soap and water. In case of adverse health effects seek medical advice.

#### Eye contact:

Rinse immediately with plenty of running water (for 10 minutes). Seek medical attention if necessary.

#### Ingestion:

Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor.

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

SKIN: Rash, Urticaria.

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

See section: Description of first aid measures

### **SECTION 5: Firefighting measures**

### Extinguishing media:

Suitable extinguishing media:

Carbon dioxide, foam, powder

Extinguishing media which must not be used for safety reasons: None known

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

None Oxides of carbon.

#### Advice for firefighters:

Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

## **SECTION 6: Accidental release measures**

**Personal precautions, protective equipment and emergency procedures:** Avoid skin and eye contact.

Ensure adequate ventilation.

#### **Environmental precautions:**

Do not let product enter drains.

#### Methods and material for containment and cleaning up:

For small spills wipe up with paper towel and place in container for disposal. For large spills absorb onto inert absorbent material and place in sealed container for disposal.

#### **Reference to other sections:**

See advice in chapter 8

## **SECTION 7: Handling and storage**

### **Precautions for safe handling:**

Use only in well-ventilated areas. Avoid skin and eye contact. Prolonged or repeated skin contact should be avoided to minimise any risk of sensitisation.

## Hygiene measures:

Good industrial hygiene practices should be observed. Good industrial hygiene practices should be observed.

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

Store in original containers at  $8-21^{\circ}C$  (46.4-69.8°F) and do not return residual materials to containers as contamination may reduce the shelf life of the bulk product.

#### Specific end use(s):

Ultraviolet adhesive

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

# **Control parameters:**

## **Exposure controls:**

Engineering controls:

UV lamp should be designed, installed and operated in such a way as to eliminate exposure of the skin and eyes to stray radiation

# Respiratory protection:

Use only in well-ventilated areas. Do not inhale vapors and fumes.

#### Hand protection:

The use of chemical resistant gloves such as Nitrile are recommended.

Please note that in practice the working life of chemical resistant gloves may be considerably reduced as a result of many influencing factors (e.g. temperature). Suitable risk assessment should be carried out by the end user. If signs of wear and tear are noticed then the gloves should be replaced.

### Eye protection:

Wear protective glasses.

#### Skin protection:

Wear suitable protective clothing.

## **SECTION 9: Physical and chemical properties**

# Information on basic physical and chemical properties:

| Appearance                             | liquid                             |
|--|------------------------------------|
|  | Clear                              |
| Odor                                   | characteristic                     |
|  |                                    |
|  |                                    |
| pH                                     | No data available / Not applicable |
| Initial boiling point                  | > 148,0 °C (> 298.4 °F)            |
| Flash point                            | > 93 °C (> 199.4 °F)               |
| Decomposition temperature              | No data available / Not applicable |
| Vapour pressure                        | No data available / Not applicable |
| Density                                | 1,0500 g/cm3                       |
| 0                                      |                                    |
| Bulk density                           | No data available / Not applicable |
| Viscosity                              | No data available / Not applicable |
| Viscosity (kinematic)                  | No data available / Not applicable |
| Explosive properties                   | No data available / Not applicable |
| Solubility (qualitative)               | Slight                             |
| (Solvent: Water)                       |                                    |
| Solidification temperature             | No data available / Not applicable |
| Melting point                          | No data available / Not applicable |
| Flammability                           | No data available / Not applicable |
| Auto-ignition temperature              | No data available / Not applicable |
| Explosive limits                       | No data available / Not applicable |
| Partition coefficient: n-octanol/water | No data available / Not applicable |
| Evaporation rate                       | No data available / Not applicable |

Other information:

No data available / Not applicable

## **SECTION 10: Stability and reactivity**

No data available / Not applicable

No data available / Not applicable

### **Reactivity:**

Reaction with strong acids. Reacts with strong oxidants.

### Chemical stability:

Stable under recommended storage conditions.

## Possibility of hazardous reactions:

See section reactivity

## Conditions to avoid:

Stable under normal conditions of storage and use. Protect from direct sunlight.

#### Incompatible materials:

No data available.

#### Hazardous decomposition products:

carbon oxides.

## **SECTION 11: Toxicological information**

#### General toxicological information:

The preparation is classified based on the conventional method outlined in Article 6(1)(a) of Directive 1999/45/EC. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

#### **Oral toxicity:**

May cause irritation to the digestive tract.

#### Inhalative toxicity:

Irritating to respiratory system

#### Skin irritation:

It is irritating and sensitising to the skin

## Eye irritation:

Irritating to eyes.

## Acute toxicity:

| Hazardous components    | Value | Value      | Route of    | Exposure | Species | Method                    |
|-------------------------|-------|------------|-------------|----------|---------|---------------------------|
| CAS-No.                 | type  |            | application | time     |         |                           |
| [3-(2,3-                | LD50  | > 5,3 mg/l | oral        |          | rat     | OECD Guideline 401 (Acute |
| Epoxypropoxy)propyl]tri | LC50  |            | inhalation  |          | rat     | Oral Toxicity)            |
| methoxysilane           | LD50  |            | dermal      |          | rabbit  | OECD Guideline 403 (Acute |
| 2530-83-8               |       |            |             |          |         | Inhalation Toxicity)      |
|                         |       |            |             |          |         | OECD Guideline 402 (Acute |
|                         |       |            |             |          |         | Dermal Toxicity)          |

## Skin corrosion/irritation:

| Hazardous components<br>CAS-No.                                   | Result         | Exposure<br>time | Species | Method  |
|---|----------------|------------------|---------|---|
| [3-(2,3-<br>Epoxypropoxy)propyl]tri<br>methoxysilane<br>2530-83-8 | not irritating | 24 h             | rabbit  | OECD Guideline 404 (Acute<br>Dermal Irritation / Corrosion) |

## Serious eye damage/irritation:

| Hazardous components<br>CAS-No.                                   | Result            | Exposure<br>time | Species | Method   |
|---|-------------------|------------------|---------|--|
| [3-(2,3-<br>Epoxypropoxy)propyl]tri<br>methoxysilane<br>2530-83-8 | highly irritating |                  | rabbit  | OECD Guideline 405 (Acute<br>Eye Irritation / Corrosion) |

#### Respiratory or skin sensitization:

| Hazardous components<br>CAS-No.                                   | Result          | Test type       | Species    | Method                                     |
|---|-----------------|-----------------|------------|--|
| [3-(2,3-<br>Epoxypropoxy)propyl]tri<br>methoxysilane<br>2530-83-8 | not sensitising | Buehler<br>test | guinea pig | OECD Guideline 406 (Skin<br>Sensitisation) |

# Germ cell mutagenicity:

| Hazardous components<br>CAS-No.                                   | Result   | Type of study /<br>Route of<br>administration   | Metabolic<br>activation /<br>Exposure time | Species | Method  |
|---|--|---|--|---------|---|
| Acrylic acid<br>79-10-7   | negative   | bacterial reverse<br>mutation assay (e.g<br>Ames test)  | with and without                           |         |   |
| 2-Hydroxyethyl<br>methacrylate<br>868-77-9                        | positive<br>negative                               | in vitro mammalian<br>chromosome<br>aberration test<br>bacterial reverse<br>mutation assay (e.g<br>Ames test) | with and without<br>with and without       |         | OECD Guideline 473 (In vitro<br>Mammalian Chromosome<br>Aberration Test)<br>OECD Guideline 471<br>(Bacterial Reverse Mutation<br>Assay) |
| [3-(2,3-<br>Epoxypropoxy)propyl]tri<br>methoxysilane<br>2530-83-8 | A Mutagenic<br>potential<br>cannot be<br>excluded. | mammalian cell<br>gene mutation assay   | with and without                           |         | OECD Guideline 476 (In vitro<br>Mammalian Cell Gene<br>Mutation Test)   |
| [3-(2,3-<br>Epoxypropoxy)propyl]tri<br>methoxysilane<br>2530-83-8 | A Mutagenic<br>potential<br>cannot be<br>excluded. |   |  | mouse   | OECD Guideline 474<br>(Mammalian Erythrocyte<br>Micronucleus Test)  |

### **Repeated dose toxicity**

| Hazardous components<br>CAS-No.                                   | Result               | Route of application | Exposure time /<br>Frequency of<br>treatment | Species | Method   |
|---|----------------------|----------------------|--|---------|--|
| [3-(2,3-<br>Epoxypropoxy)propyl]tri<br>methoxysilane<br>2530-83-8 | NOAEL=500<br>mg/kg   | oral:<br>unspecified | 28 d   | rat     | OECD Guideline 407<br>(Repeated Dose 28-Day Oral<br>Toxicity in Rodents) |
| [3-(2,3-<br>Epoxypropoxy)propyl]tri<br>methoxysilane<br>2530-83-8 | NOAEL=0,225<br>mg/kg | inhalation           | 14 d   | rat     | OECD Guideline 412<br>(Repeated Dose Inhalation<br>Toxicity: 28/14-Day)  |

# **SECTION 12: Ecological information**

## General ecological information:

Do not empty into drains / surface water / ground water.

Toxic to aquatic organisms

May cause long-term adverse effects in the aquatic environment.

The preparation is classified based on the conventional method outlined in Article 6(1)(a) of Directive 1999/45/EC. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

# Mobility:

Cured adhesives are immobile.

# Toxicity:

| Hazardous components<br>CAS-No.                                   | Value<br>type | Value     | Acute<br>Toxicity | Exposure<br>time | Species  | Method   |
|---|---------------|-----------|-------------------|------------------|--|--|
| Isobornyl acrylate<br>5888-33-5                                   | EC50          | 1 mg/l    | Daphnia           | 48 h             | Daphnia magna  | OECD Guideline<br>202 (Daphnia sp.                                     |
|   |               |           |                   |                  |  | Acute<br>Immobilisation<br>Test)                                       |
| Isobornyl acrylate<br>5888-33-5                                   | IC50          | 4,2 mg/l  | Algae             | 72 h             | Pseudokirchnerella subcapitata   | OECD Guideline<br>201 (Alga, Growth<br>Inhibition Test)                |
| Isobornyl methacrylate<br>7534-94-3                               | LC50          | 1,79 mg/l | Fish              | 96 h             |  | OECD Guideline<br>203 (Fish, Acute                                     |
| Isobornyl methacrylate<br>7534-94-3                               | EC50          | 1,1 mg/l  | Daphnia           | 48 h             | Daphnia magna  | OECD Guideline<br>202 (Daphnia sp.<br>Acute<br>Immobilisation          |
| Acrylic acid<br>79-10-7   | LC50          | 27 mg/l   | Fish              | 96 h             | Salmo gairdneri (new name:<br>Oncorhynchus mykiss)                         | OECD Guideline<br>203 (Fish, Acute<br>Toxicity Test)                   |
| Acrylic acid<br>79-10-7   | EC50          | 47 mg/l   | Daphnia           | 48 h             | Daphnia magna  | OECD Guideline<br>202 (Daphnia sp.<br>Acute<br>Immobilisation<br>Test) |
| Acrylic acid<br>79-10-7   | EC50          | 0,04 mg/l | Algae             | 72 h             | Scenedesmus subspicatus (new<br>name: Desmodesmus<br>subspicatus)          | OECD Guideline<br>201 (Alga, Growth<br>Inhibition Test)                |
| Hydroxypropyl methacrylate  | LC50          | 493 mg/l  | Fish              | 48 h             | Leuciscus idus melanotus   |  |
| 27813-02-1<br>2-Hydroxyethyl methacrylate<br>868-77-9             | LC50          | 227 mg/l  | Fish              | 96 h             | Pimephales promelas  | OECD Guideline<br>203 (Fish, Acute<br>Toxicity Test)                   |
| 2-Hydroxyethyl methacrylate<br>868-77-9                           | EC50          | 380 mg/l  | Daphnia           | 48 h             | Daphnia magna  | OECD Guideline<br>202 (Daphnia sp.<br>Acute<br>Immobilisation<br>Test) |
| 2-Hydroxyethyl methacrylate<br>868-77-9                           | EC50          | 345 mg/l  | Algae             | 72 h             | Selenastrum capricornutum<br>(new name: Pseudokirchnerella<br>subcapitata) | OECD Guideline<br>201 (Alga, Growth<br>Inhibition Test)                |
| [3-(2,3-<br>Epoxypropoxy)propyl]trimeth<br>oxysilane<br>2530-83-8 | LC50          | 55 mg/l   | Fish              | 96 h             | Cyprinus carpio  | OECD Guideline<br>203 (Fish, Acute<br>Toxicity Test)                   |
| [3-(2,3-<br>Epoxypropoxy)propyl]trimeth<br>oxysilane<br>2530-83-8 | EC50          | 473 mg/l  | Daphnia           | 48 h             | Daphnia magna  | OECD Guideline<br>202 (Daphnia sp.<br>Acute<br>Immobilisation<br>Test) |
| [3-(2,3-<br>Epoxypropoxy)propyl]trimeth<br>oxysilane<br>2530-83-8 | EC50          | 255 mg/l  | Algae             | 72 h             | Scenedesmus subspicatus (new name: Desmodesmus subspicatus)                | OECD Guideline<br>201 (Alga, Growth<br>Inhibition Test)                |

# Persistence and degradability:

| Hazardous components | Result | Route of    | Degradability | Method |
|----------------------|--------|-------------|---------------|--------|
| CAS-No.              |        | application |               |        |

| Isobornyl acrylate<br>5888-33-5                                   |                       | no data | 72,9 % | OECD Guideline 301 D (Ready<br>Biodegradability: Closed Bottle<br>Test)              |
|---|-----------------------|---------|--------|--|
| Isobornyl methacrylate<br>7534-94-3                               |                       |         | 26,8 % | OECD Guideline 301 D (Ready<br>Biodegradability: Closed Bottle<br>Test)              |
| Acrylic acid<br>79-10-7   | readily biodegradable | aerobic | 81 %   | OECD Guideline 301 D (Ready<br>Biodegradability: Closed Bottle<br>Test)              |
| Hydroxypropyl methacrylate<br>27813-02-1                          | readily biodegradable | aerobic | 94,2 % | OECD Guideline 301 E (Ready<br>biodegradability: Modified OECD<br>Screening Test)    |
| 2-Hydroxyethyl methacrylate<br>868-77-9                           | readily biodegradable | aerobic | 98 %   | OECD Guideline 301 E (Ready<br>biodegradability: Modified OECD<br>Screening Test)    |
| [3-(2,3-<br>Epoxypropoxy)propyl]trimeth<br>oxysilane<br>2530-83-8 |                       | aerobic | 37 %   | OECD Guideline 301 A (new<br>version) (Ready Biodegradability:<br>DOC Die Away Test) |

## **Bioaccumulative potential / Mobility in soil:**

| Hazardous components       | LogKow | Bioconcentration | Exposure | Species | Temperature | Method                     |
|----------------------------|--------|------------------|----------|---------|-------------|----------------------------|
| CAS-No.                    |        | factor (BCF)     | time     |         |             |                            |
| Isobornyl acrylate         | 4,21   |                  |          |         |             | OECD Guideline 107         |
| 5888-33-5                  |        |                  |          |         |             | (Partition Coefficient (n- |
|                            |        |                  |          |         |             | octanol / water), Shake    |
|                            |        |                  |          |         |             | Flask Method)              |
| Acrylic acid               | 0,46   |                  |          |         | 25 °C       | OECD Guideline 107         |
| 79-10-7                    |        |                  |          |         |             | (Partition Coefficient (n- |
|                            |        |                  |          |         |             | octanol / water), Shake    |
|                            |        |                  |          |         |             | Flask Method)              |
| Hydroxypropyl methacrylate | 0,97   |                  |          |         |             |                            |
| 27813-02-1                 |        |                  |          |         |             |                            |

# **SECTION 13: Disposal considerations**

### Waste treatment methods:

Product disposal:

Dispose of in accordance with local and national regulations.

Disposal of uncleaned packages:

After use, tubes, cartons and bottles containing residual product should be disposed of as chemically contaminated waste in an authorised legal land fill site or incinerated.

Disposal must be made according to official regulations.

Waste code

08 04 09 waste adhesives and sealants containing organic solvents and other dangerous substances

# **SECTION 14: Transport information**

## **Road transport ADR:**

| 9  |
|--|
| III  |
| M6   |
| 90   |
| 3082   |
| 9  |
| ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, |
| N.O.S. (Isobornyl acrylate)                  |
| (E)  |
|  |

# **Railroad transport RID:**

| Class:                             | 9   |
|------------------------------------|---|
| Packaging group:                   | III   |
| Classification code:               | M6  |
| Hazard ident. number:              | 90  |
| UN no.:                            | 3082  |
| Label:                             | 9   |
| Technical name:                    | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,<br>N.O.S. (Isobornyl acrylate)                     |
| Tunnelcode:                        |   |
| Inland water transport ADN:        |   |
| Class:                             | 9   |
| Packaging group:                   | III   |
| Classification code:               | M6  |
| Hazard ident. number:              |   |
| UN no.:                            | 3082  |
| Label:                             | 9   |
| Technical name:                    | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Isobornyl acrylate)                        |
| Marine transport IMDG:             |   |
| Class:                             | 9   |
| Packaging group:                   | III   |
| UN no :                            | 3082  |
| Label:                             | 0   |
| EmS:                               |   |
| EIIIS.                             | Γ-A, 5-Γ<br>Maximum allatent  |
| Proper shipping name:              | Marine pollutant<br>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,<br>N.O.S. (Isobornyl acrylate) |
| Air transport IATA:                |   |
| Class:                             | 9   |
| Packaging group:                   | Ĩ   |
| Packaging instructions (nassenger) | 964   |
| Packaging instructions (passenger) | 964   |
| UN no ·                            | 3082  |
| Label:                             | 9   |
| Proper shipping name:              | Environmentally hazardous substance, liquid, n.o.s. (Isobornyl acrylate)                        |
|                                    |   |

# **SECTION 15: Regulatory information**

# Safety, health and environmental regulations/legislation specific for the substance or mixture:

VOC content (2004/42/EC) < 5,00 % (As defined in the Council Directive 2004/42/EC)

## **SECTION 16: Other information**

The labelling of the product is indicated in Section 2. The full text

of all abbreviations indicated by codes in this safety data sheet are as follows: R10 Flammable.

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R35 Causes severe burns.

R36 Irritating to eyes.

R36/37/38 Irritating to eyes, respiratory system and skin.

R36/38 Irritating to eyes and skin.

R41 Risk of serious damage to eyes.

R43 May cause sensitisation by skin contact.

R50 Very toxic to aquatic organisms.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

H226 Flammable liquid and vapor.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

## Further information:

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

This safety data sheet was prepared in accordance with Council Directive 67/548/EEC and it's subsequent amendments, and Commission Directive 1999/45/EC.