

Safety Data Sheet according to (EC) No 1907/2006 - ISO 11014-1

Page 1 of 1

SDS no.: 153581

V002.0

Revision: 07.03.2008 printing date: 16.10.2008

1. Identification of the substance/preparation and of the company/undertaking

Trade name:

LOCTITE 3491 UV ADHESIVE

Intended use:

Ultraviolet adhesive

LOCTITE 3491 UV ADHESIVE

Company name:

Henkel Loctite Adhesives Ltd Technologies House Wood Lane End HP2 4RQ Hemel Hempstead

Great Britain

Phone: +44 (1442) 278000 Fax-no.: +44 (1442) 278071

E-mail address of person responsible for Safety Data Sheet:

ua-products a fety.uk @uk.henkel.com

Emergency information:

24 Hours Emergency Tel: +44(0)8701906777

2. Hazards identification

Care should be taken during the cure of these products by UV radiation to avoid exposure of the skin and especially of the eyes to direct or reflected UV radiation as longterm effects could be harmful.

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

R43 May cause sensitization by skin contact.

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

R68 Possible risk of irreversible effects.

3. Composition / information on ingredients

General chemical description:

UV curing acrylic adhesive

Declaration of ingredients according to EC/1907/2006:

MSDS-No.: 153581 V002.0

Hazardous components CAS-No.	EINECS ELINCS	content	Classification
Isobornyl acrylate 5888-33-5	227-561-6	30 - 60 %	Xi - Irritant; R36/37/38 N - Dangerous for the environment; R51, R53
Isobornyl methacrylate 7534-94-3	231-403-1	1 - 10 %	Xi - Irritant; R36/37/38 N - Dangerous for the environment; R51/53
Acrylic acid 79-10-7	201-177-9	1 - 5 %	R10 Xn - Harmful; R20/21/22 C - Corrosive; R35 N - Dangerous for the environment; R50
Hydroxypropyl methacrylate 27813-02-1	248-666-3	1 - 5 %	Xi - Irritant; R36, R43
2-Hydroxyethyl methacrylate 868-77-9	212-782-2	1 - 10 %	Xi - Irritant; R36/38 Xi - Irritant; R43
[3-(2,3- Epoxypropoxy)propyl]trimethoxysilane 2530-83-8	219-784-2	1 - 5 %	Xn - Harmful; R22, R68 Xi - Irritant; R36

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.

4. 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.

5. Fire fighting measures

Suitable extinguishing media:

carbon dioxide, foam, powder

Special protection equipment for firefighters:

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

6. Accidental release measures

Personal precautions:

Avoid skin and eye contact.

Ensure adequate ventilation.

Environmental precautions:

Do not let product enter drains.

Clean-up methods:

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.

7. Handling and storage

MSDS-No.: 153581 V002.0

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

Storage:

Store in original containers at 8-21°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.

8. Exposure controls / personal protection

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.

General protection and hygiene measures:

Good industrial hygiene practices should be observed

9. Physical and chemical properties

General characteristics:

liquid Appearance Clear

Odor: characteristic

Phys./chem. properties:

Boiling point > 148,0 °C (> 298.4 °F) > 93,3 °C (> 199.94 °F) Flash point

Density 1,0500 g/cm3

Solubility (qualitative)

Slight (Solvent: Water)

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

(2004/42/EC)

10. Stability and reactivity

Conditions to avoid:

Stable under normal conditions of storage and use.

Protect from direct sunlight.

Materials to avoid:

Reaction with strong acids.

Reacts with strong oxidants.

11. Toxicological information

General toxicological information:

Possible risk of irreversible effects.

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.

12. Ecological information

Mobility:

Cured adhesives are immobile.

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.

13. Disposal considerations

Product disposal:

Dispose of in accordance with local and national regulations.

Waste code():

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

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.

14. Transport information

Road transport ADR:

Class: 9
Packaging group: III
Classification code: M6
Hazard ident. number: 90
UN no.: 3082
Label: 9

Technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S. (Isobornyl acrylate)

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,

N.O.S. (Isobornyl acrylate)

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:
 9

 EmS:
 F-A ,S-F

Seawater pollutant:

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S. (Isobornyl acrylate)

Air transport IATA:

Class: 9
Packaging group: III
Packaging instructions (passenger) 914
Packaging instructions (cargo) 914
UN no.: 3082
Label: 9

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (Isobornyl

acrylate)

15. Regulations - classification and identification

Indication of danger:

Xn - Harmful N - Dangerous for the environment





Contains

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

Risk phrases:

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

R43 May cause sensitization by skin contact.

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

R68 Possible risk of irreversible effects.

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.

16. Other information

The labelling of the product is indicated in Section 15. The full text of the R-phrases indicted 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.

R22 Harmful 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.

R43 May cause sensitization by skin contact.

R50 Very toxic to aquatic organisms.

R51 Toxic to aquatic organisms.

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

R53 May cause long-term adverse effects in the aquatic environment.

R68 Possible risk of irreversible 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.