SAFETY DATA SHEET

UV Resin

Date: January 2012

1. IDENTIFICATION OF SUBSTANCES / MIXTURE AND OF THE COMPANY / UNDERTAKING

Product Identifiers

Product Name: **UV resin**

Product code: OCON 186

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

Identified uses: UV curing adhesive resin for joining industrial or laboratory components
Uses advised against: This product is to be used only for the purpose stated above.

Details of the supplier of the safety data sheet

Manufacturer:
Logitech Ltd
Erskine Ferry Road
Old Kilpatrick
Glasgow
G60 5EU
Scotland, UK

Telephone +44 (0) 1389 875444
E-mail coshh.info@logitech.uk.com

Emergency telephone number

+44 (0) 1389 875444 (09:00 – 17:00 Monday to Friday)

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

This material is a mixture

Classification according to Regulation (EC) 1272/2008 (EU 'CLP' regulation) as amended:

Eye Damage	Category 1	H318	Causes serious eye damage
Skin Irritation	Category 2	H315	Causes skin irritation
Specific target organ toxicity – single exposure	Category 2	H371	May cause damage to organs if swallowed
Specific target organ toxicity – single exposure	Category 3	H335	May cause respiratory irritation
Skin Sensitisation	Category1	H317	May cause an allergic skin reaction
Aquatic Chronic Toxicity	Category 3	H412	Harmful to aquatic life with long lasting effects

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

Symbol(s) Xn- Harmful

Risk phrase(s)	R41	Risk of serious damage to eyes
	R37/38	Irritating to respiratory system and skin
	R43	May cause sensitisation by skin contact
	R68/22	Possible risk of irreversible effects if swallowed.
	R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Label elements

Labelling elements according to Regulation (EC) 1272/2008 (EU 'CLP' regulation)

Pictogram (s):


Signal Word: **DANGER**

Hazard Statements

Causes serious eye damage
Causes skin irritation
May cause damage to organs if swallowed
May cause respiratory irritation
May cause an allergic skin reaction
Harmful to aquatic life with long lasting effects

Precautionary Statements

Wear protective gloves/protective clothing/eye protection/face protection.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.
IF ON SKIN: Gently wash with plenty of soap and water.
If skin irritation or rash occurs: Get medical advice/attention.
IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician
Avoid release to the environment.

Additional labelling

No information available

Labelling elements according to CHIP and EU Directives 67/548/EEC or 1999/45/EC

Symbol (s):

Indication of Danger:

HARMFUL

Risk Phrases

Risk of serious damage to eyes
Irritating to respiratory system and skin
May cause sensitisation by skin contact
Possible risk of irreversible effects if swallowed.
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Safety Phrases

Avoid contact with skin and eyes.
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
After contact with skin, wash immediately with plenty of water and soap.
Wear suitable gloves and eye/face protection.
Avoid release to the environment. Refer to special instructions/Safety data sheets.

Additional labelling

No information available

Other hazards

No information available

3. COMPOSITION / INFORMATION ON INGREDIENTS

This material is a mixture

Component	CAS No.	EC No.	%
Hydroxypropyl methacrylate	**27813-02-1**	**248-666-3**	**20 - 30**
Classification according to CHIP and EU Directives 67/548/EEC or 1999/45/EC:			
Xi – Irritant R36 Irritating to eyes R43 May cause sensitisation by skin contact			
Classification according to Regulation (EC) 1272/2008 (EU 'CLP' regulation) as amended:			
Eye Irritation Category 2 H319 - Causes serious eye irritation Skin Sensitiser Category 1 H317 - May cause an allergic skin reaction			
Acrylic acid	**79-10-7**	**201- 177-9**	**1 - 5**
Classification according to CHIP and EU Directives 67/548/EEC or 1999/45/EC:			
F - Flammable R10 Flammable Xn – Harmful R20/21/22 Harmful by inhalation, in contact with skin and if swallowed C – Corrosive R35 Causes severe burns N - Dangerous for the environment R50 Very toxic to aquatic organisms			
Classification according to Regulation (EC) 1272/2008 (EU 'CLP' regulation) as amended:			
Acute toxicity - oral Category 4 H302 - Harmful if swallowed Skin corrosion Category1A H314 Causes severe skin burns and eye damage Flammable liquids Category 3 H226 Flammable liquid and vapour Acute toxicity - dermal Category 4 H312 Harmful in contact with skin Acute toxicity–inhalation Category 4 H332 Harmful if inhaled Aquatic Acute Category 1 H400 Very toxic to aquatic life			
Ethanone, 2,2-dimethoxy-1,2-diphenyl-	**24650-42-8**	**246-386-6**	**1 - 5**
Classification according to CHIP and EU Directives 67/548/EEC or 1999/45/EC:			
N - Dangerous for the environment R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment			
Classification according to Regulation (EC) 1272/2008 (EU 'CLP' regulation) as amended:			
Aquatic Acute Category 1 H400 Very toxic to aquatic life Aquatic Chronic Category 1 H410 Very toxic to aquatic life with long lasting effects			
Cumene hydroperoxide	**80-15-9**	**201- 254-7**	**1 - 3**
Classification according to CHIP and EU Directives 67/548/EEC or 1999/45/EC:			
O – Oxidizing R7 May cause fire T – Toxic R23 Toxic by inhalation Xn – Harmful R21/22 Harmful in contact with skin and if swallowed R48/20/22 Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed C – Corrosive R34 Causes burns N - Dangerous for the environment R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment			

Classification according to Regulation (EC) 1272/2008 (EU 'CLP' regulation) as amended:		
Acute toxicity -dermal	Category 4	H312 Harmful in contact with skin
Specific target organ toxicity – repeated exposure		
	Category 2	H373 May cause damage to organs through prolonged or repeated exposure
Acute toxicity-inhalation	Category 3	H331 Toxic if inhaled
Acute toxicity –oral	Category 4	H302 - Harmful if swallowed
Organic peroxides	Type E	H242 Heating may cause a fire
Aquatic Chronic	Category 2	H411 - Toxic to aquatic life with long lasting effects
Skin corrosion	Category 1B	H314 Causes severe skin burns and eye damage

Methacrylic acid	**79-41-4**	**201- 204-4**	**1 - 5**

Classification according to CHIP and EU Directives 67/548/EEC or 1999/45/EC:		
Xn – Harmful	R21/22	Harmful in contact with skin and if swallowed
C – Corrosive	R35	Causes severe burns
Classification according to Regulation (EC) 1272/2008 (EU 'CLP' regulation) as amended:		
Acute toxicity –oral	Category 4	H302 Harmful if swallowed
Skin corrosion	Category 1A	H314 Causes severe skin burns and eye damage
Acute toxicity-dermal	Category 4	H312 Harmful in contact with skin

Cumene	**98-82-8**	**202-704-5**	**0.1 – 1.0**

Classification according to CHIP and EU Directives 67/548/EEC or 1999/45/EC:		
F- Flammable	R10	Flammable
Xn – Harmful	R65	Harmful: may cause lung damage if swallowed
Xi – Irritant	R37	Irritating to respiratory system
N -Dangerous for the environment,		
	R51-53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
Classification according to Regulation (EC) 1272/2008 (EU 'CLP' regulation) as amended:		
Flammable liquids	Category 3	H226 Flammable liquid and vapour
Aspiration hazard	Category 1	H304 May be fatal if swallowed and enters airways
Specific target organ toxicity – single exposure		
	Category 3	H335 May cause respiratory irritation
Aquatic Chronic	Category 2	H411 Toxic to aquatic life with long lasting effects

[3-(2,3-Epoxypropoxy)propyl]trimethoxysilane	**2530-83-8**	**219-784-2**	**1 - 3**

Classification according to CHIP and EU Directives 67/548/EEC or 1999/45/EC:		
Xn – Harmful	R22	Harmful if swallowed
	R68	Possible risk of irreversible effects
Xi – Irritant	R36	Irritating to eyes
Classification according to Regulation (EC) 1272/2008 (EU 'CLP' regulation) as amended:		
Flammable liquids	Category 3	H226 Flammable liquid and vapour
Aspiration hazard	Category 1	H304 May be fatal if swallowed and enters airways
Specific target organ toxicity – single exposure		
	Category 3	H335 May cause respiratory irritation
Aquatic Chronic	Category 2	H411 Toxic to aquatic life with long lasting effects

4. FIRST AID MEASURES

Description of first aid measures

General advice
Remove from source of exposure.

Inhalation
Remove from exposure to fresh air. If irritation persists seek medical advice

Ingestion
Wash out mouth thoroughly with water, drink plenty of water Do not induce vomiting. Seek immediate medical attention

Skin contact
Immediately wash area with soap and water then rinse thoroughly with water. If person experiences continued irritation seek medical advice.
Remove contaminated clothing and launder before re-use.

Eye contact
Rinse immediately, including under the eye lids, with plenty of water for at least 10 minutes. Obtain medical attention.

Most important symptoms and effects, both acute and delayed
No data available

Indication of any immediate medical attention and special treatment needed
No information

5. FIRE-FIGHTING MEASURES

Extinguishing media
Suitable extinguishing media: All types.
Unsuitable extinguishing media: None

Special hazards arising from the substances or mixture
Product is based on organic materials. Combustion will produce carbon dioxide, carbon monoxide and irritating and toxic organic chemicals.

Advice for fire fighters
Wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
Prevent contact with eyes and skin – wear Personal Protective equipment (PPE) - eye protection and chemically impervious gloves (rubber, nitrile, PVC etc).
Do not breathe fumes / vapour / mist. Ensure good ventilation or wear PPE.
Wash hands after handling

Environmental precautions

Do not allow to contaminate rivers, streams, other waterways, drains, or other aquatic systems.
Use absorbent materials (spill kit materials, sand, absorbent granules, earth etc) to contain the spillage and prevent environmental contamination.
Advise local authorities immediately if significant spillages cannot be contained.

Methods and material for containment and cleaning up

Use absorbent materials (spill kit materials, sand, absorbent granules, earth etc) to soak up the spillage. Sweep or scrape the absorbed material into a sealable storage container.
Remove final residues with a water / detergent mixture, running the water to foul sewer (NOT surface water drains).

Reference to any other sections

See section 8 for Personal Protective Equipment (PPE)
See section 13 for disposal information

7. HANDLING AND STORAGE

Precautions for safe handling:

Minimise skin contact. Wear chemically impervious gloves.
Prevent eye contact. Wear eye protection.
Do not breathe fumes – ensure adequate ventilation or fume extraction.
Do not eat, drink or smoke while using material. Wash hands after use.

Conditions for safe storage, including any incompatibilities

Keep containers sealed in a cool, well ventilated area.
Do not store in direct sunlight or near other heat sources.

Specific end use(s)
None identified

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Exposure limits
UK Workplace Exposure Limits (WELs) exists for:
Cumene:

LTEL 25 ppm / 125 mg/m3 (8 hr TWA)
STEL: 50 ppm / 250 mg/m3 (15 min ref. period)

Methacrylic acid

LTEL 20 ppm / 72 mg/m3 (8 hr TWA)
STEL: 40 ppm / 143 mg/m3 (15 min ref. period)

Other exposure limits may be specified in individual countries. Check national legislation for appropriate exposure limits.
Exposure should be controlled to avoid exceeding the specified limits

Derived No Effect Level (DNEL)	No information available.
Predicted No Effect Concentration (PNEC)	No information available

Exposure controls

Appropriate engineering controls
Design equipment to prevent eye contact and to minimise skin exposure and inhalation of fumes / vapour.

Personal protective equipment
If PPE is necessary to control exposure use the following:

Respiratory protection	Use an EN149 approved respirator fitted with a combined particle and organic vapour filter (type AP). The correct selection, fitting, use, storage and maintenance of respiratory protective equipment is important. Follow manufacturer's recommendation or seek expert advice. HSE document HSG 53 provides some guidance
Hand protection	Chemically impervious gloves suitable for use the components listed in section 3 e.g. Nitrile gloves. Follow manufacturer recommendations on inspection and replacement.
Skin protection	Long sleeved clothing. Replace contaminated clothing before skin contact occurs.
Eye protection	EN approved goggles or face shield if eye contact likely.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemicals properties

Appearance:	clear liquid
Odour:	characteristic
Odour threshold:	information not available
pH:	information not available
Melting point:	information not available
Boiling point:	information not available
Flash point:	> 100 ^{o}C
Evaporation rate	information not available
Flammability	information not available
Upper/lower	information not available
Explosive limits	information not available
Vapour pressure	information not available
Vapour density	information not available
Density	1.05 g/ml
Solubility in water:	information not available
Solubility in other Ingredients:	information not available
Partition coefficient Octanol/water:	information not available
Auto-ignition temperature	information not available
Decomposition temperature	information not available
Viscosity	information not available
Explosion properties:	information not available
Oxidising properties:	Not oxidising.

Other information
No additional data available

10. STABILITY AND REACTIVITY

Reactivity
Not reactive to materials commonly used in the transportation, handling and storage.

Chemical stability
Stable at room temperature.

Possibility of hazardous reactions
No hazardous reactions known

Conditions to avoid
Ignition sources

Incompatible materials
Strong oxidising agents

Hazardous decomposition products
Combustion will produce carbon dioxide, carbon monoxide and irritating and toxic organic chemicals.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity	No data available
Irritation	Expected to be irritating to the eyes and skin.
Corrosivity	No data available
Sensitisation	Can cause skin sensitisation.
Repeated dose toxicity	No data available
Carcinogenicity	No data available
Mutagenicity	No data available

Toxicity for reproduction No data available

Other information
Possible risk of irreversible effects

12. ECOLOGICAL INFORMATION

Toxicity
Data not available

Persistence and biodegradability
Not expected to be biodegradeable.

Bioaccumulative potential
Data not available

Mobility in Soil
Data not available

Results of PBT and vPvB assessment
Data not available

Other adverse effects
Data not available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Product
Dispose of product as hazardous waste in accordance with local, national and international legislation, using an approved registered waste disposal company.
The European Waste Code will depend upon the use of the product and cannot be specified here. (consider 08 04 09)
If the product has been reacted to produce a cured product this can be disposed of as non-hazardous waste

Packaging
Clean uncontaminated packaging can be disposed of as general waste: European Waste Code 15 01 xx (xx will depend upon the type of packaging e.g. plastic, cardboard etc. Refer to European Waste Catalogue). Recycle such waste wherever possible.
Contaminated (e.g. containing uncured material) packaging / containers must be disposed of as hazardous waste

14. TRANSPORT INFORMATION

UN number
Not a dangerous good

UN proper shipping name
Not a dangerous good

Transport hazard class(s)
Not a dangerous good

Packing group
Not a dangerous good

Environmental hazards
Not a dangerous good

Special precautions for user
None identified

Transport in bulk according to Annex II of MARPOL 73/78 and IBC Code
No information available

15. REGULATORY INFORMATION

This Safety Data Sheet has been prepared in accordance with the requirements of regulation (EC) No 1907/2006 as amended by regulation (EU) No 453/2010.

Workplace exposure Limits given in section 8 have been taken from the UK HSE document: EH40/2005 Workplace exposure limits as amended.

Relevant regulations:
Regulation (EC) 1272/2008 (EU 'CLP' regulation)
Regulation (EC) 790/2009 First Adaptation to Technical Progress (ATP) for CLP regulation
Regulation (EC) 286/2011 Second Adaptation to Technical Progress (ATP) for CLP regulation
EU Directive 67/548/EEC ('Dangerous Substances Directive')
Regulation (EC) No 1907/2006 ('REACH')
Regulation (EU) No 453/2010.

Safety, health and environmental regulations/legislation specific for the substance or mixture
None identified

Chemical safety assessment
A Chemical Safety Assessment has not been undertaken for this product.

16. OTHER INFORMATION

The information contained in the Safety Data Sheet is correct to the best of our knowledge at the date of issue. It is intended as a guide for the safe use, handling, storage, transportation and disposal. It is not intended as a warranty or specification. The information relates only to the product specified and may not be suitable for combinations with other materials.