



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

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Loctite 330

SDS no. : 153526

V001.2

Revision: 18.09.2007

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

Trade name:

Loctite 330

Intended use:

Acrylics

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-productsafety.uk@uk.henkel.com

Emergency information:

24 Hours Emergency Tel: +44(0)8701906777

2. Hazards identification

Non corrosive to skin in accordance with the in vitro test method, B40 Skin Corrosion - Human skin model assay, specified in Part B of Annex V to Directive 67/548/EEC.

R37/38 Irritating to respiratory system and skin.

R41 Risk of serious damage to eyes.

R43 May cause sensitization by skin contact.

3. Composition / information on ingredients

General chemical description:

Dimethacrylate urethane diol based sealant

Declaration of ingredients according to EC/1907/2006:

Hazardous components CAS-No.	EINECS ELINCS	content	Classification
1,3-Butyleneglycol dimethacrylate 1189-08-8	214-711-0	0,1 - 2 %	Xi - Irritant; R36/37/38
tetrahydrofurfuryl methacrylate 2455-24-5	219-529-5	50 - 60 %	Xi - Irritant; R36/37/38
2-Ethylhexyl methacrylate 688-84-6	211-708-6	1 - 10 %	Xi - Irritant; R36/37/38
Reaction product:Epoxide resin (MW <=700), Bisphenol-A epichlorhydrin 25068-38-6		0,1 - 2 %	Xi - Irritant; R36/38 Xi - Irritant; R43 N - Dangerous for the environment; R51, R53
Methylacrylic acid 79-41-4	201-204-4	1 - 10 %	Xn - Harmful; R21/22 C - Corrosive; R35
Cumene hydroperoxide 80-15-9	201-254-7	0,1 - 1 %	O - Oxidizing; R7 T - Toxic; R23 Xn - Harmful; R21/22, R48/20/22 C - Corrosive; R34 N - Dangerous for the environment; R51, R53

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:

Should not be a problem as product is of low volatility. However, if feeling unwell remove patient to fresh air.

Skin contact:

Seek medical advice.
Rinse with running water and soap.

Eye contact:

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

Ingestion:

Seek medical advice.
Rinse out mouth, drink 1-2 glasses of water, do not induce vomiting.

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.

Hazardous combustion products:

Oxides of carbon, oxides of nitrogen, irritating organic vapors.

6. Accidental release measures

Personal precautions:

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.
Wash spillage site thoroughly with soap and water or detergent solution.

10. Stability and reactivity

Conditions to avoid:

Stable under normal conditions of storage and use.

Materials to avoid:

Reaction with strong oxidants.

Hazardous decomposition products:

carbon oxides

11. Toxicological information

Oral toxicity:

May cause irritation to the digestive tract.

Inhalative toxicity:

Irritating to respiratory system

Skin irritation:

Irritating to the skin

Eye irritation:

The product may cause serious eye damage.

Sensitizing:

May cause sensitization by skin contact.

12. Ecological information

General ecological information:

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

13. Disposal considerations

Product disposal:

Dispose of in accordance with local and national regulations.

Waste code(EWC):

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.

14. Transport information

General information:

Not hazardous according to RID, ADR, ADNR, IMDG, IATA-DGR.

15. Regulations - classification and identification

Indication of danger:

Xi - Irritant



Contains

Methylacrylic acid,
Reaction product: Epoxide resin (MW <=700), Bisphenol-A epichlorhydrin

Risk phrases:

R37/38 Irritating to respiratory system and skin.
R41 Risk of serious damage to eyes.
R43 May cause sensitization by skin contact.

Safety phrases:

S24/25 Avoid contact with skin and eyes.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28 After contact with skin, wash immediately with plenty of water.
S37/39 Wear suitable gloves and eye/face protection.
S51 Use only in well-ventilated areas.

16. Other information

The labelling of the product is indicated in Section 15. The full text of the R-phrases indicated by codes in this safety data sheet are as follows:

R21/22 Harmful in contact with skin and if swallowed.
R23 Toxic by inhalation.
R34 Causes burns.
R35 Causes severe burns.
R36/37/38 Irritating to eyes, respiratory system and skin.
R36/38 Irritating to eyes and skin.
R43 May cause sensitization by skin contact.
R48/20/22 Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.
R51 Toxic to aquatic organisms.
R53 May cause long-term adverse effects in the aquatic environment.
R7 May cause fire.

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 its subsequent amendments, and Commission Directive 1999/45/EC.



Material Safety Data Sheet



Revision Date: 28/02/2005
Issue date: 19/03/2005
Version: 9

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: 7386 Solvent Based Surface Activator
Item No. : 178278

Product type: Activator

Region: Europe

Company Name & Address

Henkel Loctite Adhesives Ltd,
Watchmead,
Welwyn Garden City,
Herts. AL7 1JB, UK. : +44 1 707 358800
Fax: +44 1 707 358900
Emergency Phone No.
+353-1-4599301/+353-87-2629625/+353-1-4046444

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components CAS No.	EINECS-No.	%	Classification
n-Heptane 142-82-5	205-563-8	50 - 60	F;R11 N;R50-53 R67 Xi;R38 Xn;R65
Aldehyde-amine condensate 34562-31-7	252-091-3	20 - 30	Xi;R36/38
Propan-2-ol 67-63-0	200-661-7	10 - 20	F;R11 R67 Xi;R36

Additional Information:

For the explanation of the listed risk phrases refer to Section 16.

3. HAZARDS IDENTIFICATION

Relevant routes of exposure: Skin, Inhalation, Eyes, Ingestion

Highly flammable. Harmful: may cause lung damage if swallowed. Vapours may cause drowsiness and dizziness.
Irritating to eyes and skin. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. FIRST AID MEASURES

Inhalation: Remove affected person to fresh air, and if still feeling unwell seek medical attention.
Eye contact: Flush eyes with plenty of water for at least 15 minutes. If irritation persists seek medical attention.
Ingestion: Rinse mouth with water then give plenty of water to drink. Do not induce vomiting. Consult a physician.

Skin contact: Wash off with soap and plenty of water. Obtain medical attention if irritation persists.

Notes to physician: Treat symptomatically as required by the condition of the patient.

5. FIRE-FIGHTING MEASURES

Extinguishing media: Foam. Carbon dioxide (CO₂). Dry chemical.

Special fire fighting procedures: Water should be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Unusual fire or explosion hazards: Vapours may accumulate in low or confined areas, travel considerable distance to source of ignition, and flash back.

Hazardous combustion products: Oxides of carbon. Oxides of nitrogen.

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions: Remove sources of ignition. Prevent product from entering drains or open waters.

Clean-up methods: Ensure adequate ventilation. Soak up with inert absorbent. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Handling: Keep away from sources of ignition - No smoking. Use only in well-ventilated areas. Vapours should be extracted to avoid inhalation.

Storage: Store away from heat in a cool, well-ventilated area. Keep away from heat and sources of ignition.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Hazardous components CAS No.	ACGIH TLV	Austria	Belgium	Czech
n-Heptane 142-82-5	400 ppm TWA 500 ppm STEL	2000 mg/m ³ MAK 2000 ppm STEL 500 ppm MAK 8000 mg/m ³ STEL	1664 mg/m ³ VLE 2080 mg/m ³ VLE 400 ppm VLE 500 ppm VLE	2000 mg/m ³ TWA
Propan-2-ol 67-63-0	200 ppm TWA 400 ppm STEL	200 ppm MAK 2000 mg/m ³ STEL 500 mg/m ³ MAK 800 ppm STEL	1248 mg/m ³ VLE 400 ppm VLE 500 ppm VLE 997 mg/m ³ VLE	500 mg/m ³ TWA

Hazardous components CAS No.	Estonia	Greece	Finland	France	Hungary
n-Heptane 142-82-5		2000 mg/m ³ STEL 2000 mg/m ³ TWA 500 ppm STEL 500 ppm TWA	1200 mg/m ³ TWA 2100 mg/m ³ STEL 300 ppm TWA 500 ppm STEL	1600 mg/m ³ VME 400 ppm VME	2000 mg/m ³ TWA 8000 mg/m ³ STEL
Propan-2-ol 67-63-0	150 ppm TWA 250 ppm STEL 350 mg/m ³ TWA 600 mg/m ³ STEL	1225 mg/m ³ STEL 400 ppm TWA 500 ppm STEL 980 mg/m ³ TWA	200 ppm TWA 250 ppm STEL 500 mg/m ³ TWA 620 mg/m ³ STEL	400 ppm VLE 980 mg/m ³ VLE	2000 mg/m ³ STEL 500 mg/m ³ TWA

Hazardous components CAS No.	Germany	Ireland	Netherlands	Norway	Portugal
n-Heptane 142-82-5	2100 mg/m ³ MAK 2100 mg/m ³ Peak 500 ppm Peak 500 ppm MAK	1600 mg/m ³ TWA 2000 mg/m ³ STEL 400 ppm TWA 500 ppm STEL	1200 mg/m ³ MAC 1600 mg/m ³ STEL 300 ppm MAC 400 ppm STEL	200 ppm OEL 800 mg/m ³ OEL	400 ppm TWA
Propan-2-ol 67-63-0	1000 mg/m ³ Peak 200 ppm MAK 400 ppm Peak 500 mg/m ³ MAK	1225 mg/m ³ STEL 400 ppm TWA 500 ppm STEL 980 mg/m ³ TWA	250 ppm MAC 650 mg/m ³ MAC	100 ppm OEL 245 mg/m ³ OEL	400 ppm TWA

Hazardous components CAS No.	Poland	Spain	Sweden	UK EH40
n-Heptane 142-82-5	1200 mg/m ³ NDS 2000 mg/m ³ NDCh	2085 mg/m ³ VLA-ED 500 ppm VLA-ED		500 ppm TWA
Propan-2-ol 67-63-0	1200 mg/m ³ NDCh 900 mg/m ³ NDS	1250 mg/m ³ VLA-EC 400 ppm VLA-ED 500 ppm VLA-EC 998 mg/m ³ VLA-ED	150 ppm LLV 250 ppm STV 350 mg/m ³ LLV 600 mg/m ³ STV	1250 mg/m ³ STEL 400 ppm TWA 500 ppm STEL 999 mg/m ³ TWA

Engineering controls:	Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation, especially in confined areas.
Respiratory protection:	Use in well ventilated area. Avoid inhalation of vapour .
Skin 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/face protection:	Safety glasses.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	liquid
Colour:	amber
Odour:	aliphatic
pH:	not applicable
Vapour pressure:	35 mmHg @20°C (68° F)
Boiling point/range:	approximately 80°C (176°F)
Specific gravity:	0.8
Vapour density:	heavier than air
Flash point:	0°C (32°F) Less than
Solubility in water:	immiscible
VOC content:	76% (As defined in the Council Directive 1999/13/EC).

10. STABILITY AND REACTIVITY

Stability:	Stable.
Hazardous polymerisation:	Will not occur.
Hazardous decomposition products:	no data available
Incompatibility:	acids. oxidising agents.
Conditions to avoid:	Heat, flames and sparks.

11. TOXICOLOGICAL INFORMATION

Hazardous components CAS No.	LD50s & LC50s (NIOSH) :
n-Heptane 142-82-5	Inhalation LC50 (Rat) = 103 g/m ³
Propan-2-ol 67-63-0	Dermal LD50 (Rabbit) = 12800 mg/kg Inhalation LC50 (Rat) = 16000 mg/kg Oral LD50 (Mouse) = 3600 mg/kg Oral LD50 (Rat) = 5045 mg/kg

Inhalation:	May cause headache and dizziness.
Skin:	Irritating to the skin. Solvent may remove essential oils from the skin making it susceptible to attack from other chemicals.
Eyes:	Irritating to eyes.
Ingestion:	Small amounts of liquid aspirated into the respiratory system during ingestion or from vomiting may cause bronchopneumonia or pulmonary oedema.

12. ECOLOGICAL INFORMATION

Mobility:	The product evaporates readily.
Bioaccumulation:	No data available.
Ecotoxicity:	Very toxic to aquatic organisms - may cause long-term adverse effects in the aquatic environment.
Persistence and degradability:	No data available.
WGK Water Classification (VwVwS):	Class 1

13. DISPOSAL CONSIDERATIONS

Product Disposal methods:	Dispose of in accordance with local and national regulations.
European Waste Catalogue:	14 06 03 - other solvents and solvent mixtures.
Packaging Disposal Methods:	Dispose of in accordance with local and national regulations. 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.

14. TRANSPORT INFORMATION

ICAO/IATA (Air):

Identification number:	UN 1993
Proper shipping name:	Flammable liquid n.o.s (Heptanes Isopropanol)
Hazard class or division:	3
Packing group:	II

Exceptions:	Consumer Commodity ID8000 (Not more than 500 ml)
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IMO/IMDG (Sea)

Identification number:	UN 1993
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Proper shipping name: Flammable liquid n.o.s. (Heptanes Isopropanol)
Hazard class or division: 3
Packing group: II
EmS: F-E, S-E
Marine pollutant: None

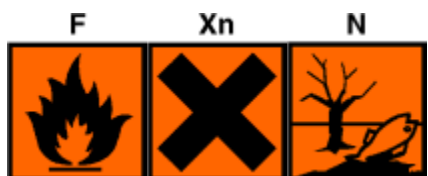
Exceptions: Limited quantity (Not more than 5 L)

ADR/RID (Road/Rail)

UN Number UN 1993
Proper shipping name: Flammable liquid n.o.s. (Heptanes Isopropanol)
Hazard class or division 3
Packing group II
Classification Code: F1

15. REGULATORY INFORMATION

Contains: n-Heptane
Indication of danger: Xn - Harmful.
N - Dangerous for the environment.
F - Highly flammable.



Risk Phrases: R11 - Highly flammable.
R67 - Vapours may cause drowsiness and dizziness.
R65 - Harmful: may cause lung damage if swallowed.
R36/38 - Irritating to eyes and skin.
R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases: S16 - Keep away from sources of ignition - No smoking.
S23 Do not breathe vapour.
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28 - After contact with skin, wash immediately with plenty of soap and water
S61 - Avoid release to the environment. Refer to special instructions/safety data sheets.
S62 - If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Additional Labelling: None

16. OTHER INFORMATION

Prepared by: Dr Paul Friery PSRA Specialist, Product Safety & Regulatory Affairs - Europe

The information in this safety data sheet was obtained from reputable sources and to the best of our knowledge is accurate and current at the mentioned date. Neither Loctite nor its subsidiary companies accept any liability arising out of the use of the information provided here or the use, application or processing of the product(s) described herein. Attention of users is drawn to the possible hazards from improper use of the product(s). 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.

Explanation of Section 2 R - Phrases

R11 - Highly flammable.
R36 - Irritating to eyes.
R38 - Irritating to skin.
R67 - Vapours may cause drowsiness and dizziness.
R65 - Harmful: may cause lung damage if swallowed.
R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.