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

sds no. : 417674
V003.0

Loctite Hybrid

Revision: 29.03.2012
printing date: 10.04.2012

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

1.1. Product identifier
Loctite Hybrid

1.2. Relevant identified uses of the substance or mixture and uses advised against
Intended use:
Reaction adhesives

1.3. Details of the supplier of the safety data sheet
Henkel Limited
Apollo Court, 2 Bishop Square Business Park
Hatfield, Hertfordshire AL10 9EY

Great Britain

Phone: +44 (0)1606 593933
Fax-no.: +44 (0)1606 863762

ua-productsafety.uk@uk.henkel.com

1.4. Emergency telephone number
24 Hours Emergency Tel: +44 0 8701 906777 - For further general health & safety, technical and practical advice on this product, please call +44 (0) 1606 593933 or write to: Technical Services; Henkel Limited; Road 5; Winsford Industrial Estate; Winsford; Cheshire; CW7 3QY- Email: technical.services@henkel.co.uk

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (DPD):
No classification required.

2.2. Label elements

Label elements (DPD):
Safety phrases:
S2 Keep out of the reach of children.

Additional information:
The product is not subject to classification according to the calculation methods of the "General Classification Guideline for Preparations of the EC" as issued in the last version.

Contains N-(3-(Trimethoxysilyl)propyl)ethylenediamine. May produce an allergic reaction.

2.3. Other hazards
Evolves methanol during cure.

SECTION 3: Composition/information on ingredients

General chemical description:
Adhesive
Base substances of preparation:
Polymer, silan- terminated

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

Hazardous components CAS-No.	EC Number REACH-Reg No.	content	Classification
Trimethoxyvinylsilane 2768-02-7	220-449-8 01-2119513215-52	>= 1- < 10 %	Flammable liquids 3 H226 Acute toxicity 4; Inhalation H332
Benzene, C10-13-alkyl derivs. 67774-74-7	267-051-0	< 20 %	Aspiration hazard 1 H304
N-(3-(Trimethoxysilyl)propyl)ethylenediamine 1760-24-3	217-164-6	>= 0,1- < 1 %	Skin sensitizer 1; Dermal H317 Serious eye damage/eye irritation 1 H318 Acute toxicity 4; Inhalation H332 Chronic hazards to the aquatic environment 3 H412

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 CAS-No.	EC Number REACH-Reg No.	content	Classification
Trimethoxyvinylsilane 2768-02-7	220-449-8 01-2119513215-52	>= 1 - < 10 %	Xn - Harmful; R10, R20
N-(3-(Trimethoxysilyl)propyl)ethylenediamine 1760-24-3	217-164-6	>= 0,1 - < 1 %	R52/53 Xn - Harmful; R20 Xi - Irritant; R41, R43

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

4.1. Description of first aid measures

General information:
In case of adverse health effects seek medical advice.

Inhalation:
Move to fresh air, consult doctor if complaint persists.

Skin contact:
Rinse with running water and soap. Apply replenishing cream. Change all contaminated clothing.

Eye contact:
Rinse immediately with plenty of running water, seek medical advice if necessary.

Ingestion:
Rinse mouth and throat. Drink 1-2 glasses of water. Seek medical advice.

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

4.3. Indication of any immediate medical attention and special treatment needed
See section: Description of first aid measures

SECTION 5: Firefighting measures

5.1. Extinguishing media
Suitable extinguishing media:
carbon dioxide, foam, powder, water spray jet, fine water spray

Extinguishing media which must not be used for safety reasons:
High pressure waterjet

5.2. Special hazards arising from the substance or mixture
In the event of a fire, carbon monoxide (CO), carbon dioxide (CO2) and nitrogen oxides (NOx) can be released.

5.3. Advice for firefighters
Wear self-contained breathing apparatus.
Wear protective equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Wear protective equipment.
Danger of slipping on spilled product.
Avoid contact with skin and eyes.

6.2. Environmental precautions
Do not empty into drains / surface water / ground water.

6.3. Methods and material for containment and cleaning up
Remove mechanically.
Dispose of contaminated material as waste according to Chapter 13.

6.4. Reference to other sections
See advice in chapter 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Avoid skin and eye contact.

Hygiene measures:
Wash hands before work breaks and after finishing work.
Do not eat, drink or smoke while working.

7.2. Conditions for safe storage, including any incompatibilities
Store in sealed original container.
Do not expose to direct sunlight.
Temperatures between - 10 °C and + 25 °C
Store in a cool, dry place.
Do not store together with food or other consumables (coffee, tea, tobacco, etc.).

7.3. Specific end use(s)
Reaction adhesives

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Valid for

Great Britain

Ingredient	ppm	mg/m^3	Type	Category	Remarks
METHANOL 67-56-1	200	266	Time Weighted Average (TWA):		EH40 WEL
METHANOL 67-56-1			Skin designation:	Can be absorbed through the skin.	EH40 WEL
METHANOL 67-56-1	250	333	Short Term Exposure Limit (STEL):		EH40 WEL
METHANOL 67-56-1	200	260	Time Weighted Average (TWA):	Indicative	ECTLV

Predicted No-Effect Concentration (PNEC):

Name on list	Environmental Compartment	Exposure period	Value				Remarks
			mg/l	ppm	mg/kg	others	
Trimethoxyvinylsilane 2768-02-7	aqua (freshwater)					0,34 mg/L	
Trimethoxyvinylsilane 2768-02-7	aqua (marine water)					0,034 mg/L	
Trimethoxyvinylsilane 2768-02-7	aqua (intermittent releases)					3,4 mg/L	
Trimethoxyvinylsilane 2768-02-7	STP					110 mg/L	
Trimethoxyvinylsilane 2768-02-7	sediment (freshwater)				1,24 mg/kg		
Trimethoxyvinylsilane 2768-02-7	sediment (marine water)				0,12 mg/kg		
Trimethoxyvinylsilane 2768-02-7	soil				0,052 mg/kg		

Derived No-Effect Level (DNEL):

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
Trimethoxyvinylsilane 2768-02-7	worker	dermal	Long term exposure - systemic effects		0,69 mg/kg bw/day	
Trimethoxyvinylsilane 2768-02-7	worker	inhalation	Long term exposure - systemic effects		4,9 mg/m3	
Trimethoxyvinylsilane 2768-02-7	general population	dermal	Acute/short term exposure - systemic effects		26,9 mg/kg bw/day	
Trimethoxyvinylsilane 2768-02-7	general population	inhalation	Acute/short term exposure - systemic effects		93,4 mg/m3	
Trimethoxyvinylsilane 2768-02-7	general population	dermal	Long term exposure - systemic effects		0,3 mg/kg bw/day	
Trimethoxyvinylsilane 2768-02-7	general population	inhalation	Long term exposure - systemic effects		1,04 mg/m3	
Trimethoxyvinylsilane 2768-02-7	general population	oral	Long term exposure - systemic effects		0,3 mg/kg bw/day	

8.2. Exposure controls:

Respiratory protection:
Suitable breathing mask when there is inadequate ventilation.
Combination filter: ABEKP
This recommendation should be matched to local conditions.

Hand protection:
In the case of longer contact protective gloves made from nitrile rubber are recommended according to EN 374.
material thickness > 0.1 mm
Perforation time > 60 minutes
In the case of longer and repeated contact please note that in practice the penetration times may be considerably shorter than those determined according to EN 374. The protective gloves must always be checked for their suitability for use at the specific workplace (e.g. mechanical and thermal stress, product compatibility, antistatic effects, etc.). The gloves must be replaced immediately at the first signs of wear and tear. The information provided by the manufacturers and given in the relevant trade association regulations for industrial safety must always be observed. We recommend that a hand care plan is drawn up in cooperation with a glove manufacturer and the trade association in accordance with the local operating conditions.

Eye protection:
Protective goggles

Skin protection:
Suitable protective clothing

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	liquid high viscosity transparent
Odor	mild
pH	No data available / Not applicable
Initial boiling point	No data available / Not applicable
Flash point	66,0 °C (150.8 °F)
Decomposition temperature	No data available / Not applicable
Vapour pressure	No data available / Not applicable
Density (20 °C (68 °F))	1,10 - 1,16 g/cm3
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) (20 °C (68 °F); Solvent: Water)	Insoluble
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
Vapor density	No data available / Not applicable
Oxidising properties	No data available / Not applicable

9.2. Other information

No data available / Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity
None if used for intended purpose.

10.2. Chemical stability
Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions
See section reactivity

10.4. Conditions to avoid
None if used for intended purpose.

10.5. Incompatible materials
None if used properly.

10.6. Hazardous decomposition products
Evolves methanol during cure.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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.
Persons suffering from allergic reactions to amines should avoid contact with the product.

Sensitizing:
Cross-reactions with other amine compounds are possible.

SECTION 12: Ecological information

General ecological 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.
Do not empty into drains, soil or bodies of water.

12.1. Toxicity

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Trimethoxyvinylsilane 2768-02-7	LC50	191 mg/l	Fish	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
Trimethoxyvinylsilane 2768-02-7	EC50	> 100 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Trimethoxyvinylsilane 2768-02-7	EC50	> 100 mg/l	Algae	72 h		OECD Guideline 201 (Alga, Growth Inhibition Test)

12.3. Bioaccumulative potential / 12.4. Mobility in soil

Hazardous components CAS-No.	LogKow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
N-(3-(Trimethoxysilyl)propyl)ethylenediamine 1760-24-3	-1,67					

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product disposal:
Dispose of waste and residues in accordance with local authority requirements.

Disposal of uncleaned packages:
Use packages for recycling only when totally empty.

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

SECTION 14: Transport information

Road transport ADR:
Not dangerous goods

Railroad transport RID:
Not dangerous goods

Inland water transport ADN:
Not dangerous goods

Marine transport IMDG:
Not dangerous goods

Air transport IATA:
Not dangerous goods

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

VOC content (VOCV 814.018 VOC regulation CH)	0,20 %

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 Harmful by inhalation.
R41 Risk of serious damage to eyes.
R43 May cause sensitisation by skin contact.
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
H226 Flammable liquid and vapor.
H304 May be fatal if swallowed and enters airways.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H332 Harmful if inhaled.
H412 Harmful 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.