

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

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SDS No.: 213498

V002.4 Revision: 23.05.2015

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Replaces version from: 12.08.2014

LOCTITE STYCAST OB 4000 known as HYSOL OB4000 GA EU FR  $4.25\mathrm{KG}$ 

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

#### 1.1. Product identifier

LOCTITE STYCAST OB 4000 known as HYSOL OB4000 GA EU FR 4.25KG

#### **Contains:**

Methylhexahydrophthalic anhydride Hexahydromethylphthalic anhydride

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use:

Part B of 2-Component Epoxy Adhesive.

### 1.3. Details of the supplier of the safety data sheet

Henkel Ltd Wood Lane End

HP2 4RQ Hemel Hempstead

Great Britain

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

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

### 1.4. Emergency telephone number

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

### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

### Classification (CLP):

Serious eye damage Category 1

H318 Causes serious eye damage.

Respiratory sensitizer Category 1

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin sensitizer Category 1

H317 May cause an allergic skin reaction.

## 2.2. Label elements

## Label elements (CLP):



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Signal word:	Danger
Hazard statement:	H317 May cause an allergic skin reaction.
	H318 Causes serious eye damage.
	H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Precautionary statement:	P261 Avoid breathing vapours.
Prevention	P280 Wear protective gloves/eye protection.
Precautionary statement:	P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove
Response	contact lenses, if present and easy to remove. Continue rinsing.
	P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
	P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor.

### 2.3. Other hazards

None if used properly.

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

### 3.2. Mixtures

### General chemical description:

Accelerator for epoxy systems

# Base substances of preparation:

Anhydrides

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

Hazardous components CAS-No.	EC Number REACH-Reg No.	content	Classification
Methylhexahydrophthalic anhydride 19438-60-9	243-072-0	60- 80 %	Eye Dam. 1 H318 Resp. Sens. 1 H334 Skin Sens. 1 H317 ===== EU. REACH Candidate List of Substances of Very High Concern for Authorization (SVHC)
Hexahydromethylphthalic anhydride 25550-51-0	247-094-1	20- 30 %	Eye Dam. 1 H318 Skin Sens. 1 H317 Resp. Sens. 1 H334 ===== EU. REACH Candidate List of Substances of Very High Concern for Authorization (SVHC)

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.

# **SECTION 4: First aid measures**

## 4.1. Description of first aid measures

#### Inhalation:

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

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Skin contact:

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Rinse with running water and soap.

Obtain medical attention if irritation persists.

Eye contact:

Rinse immediately with plenty of running water (for 10 minutes), seek medical attention from a specialist.

Ingestion:

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

### 4.2. Most important symptoms and effects, both acute and delayed

EYE: Irritation, conjunctivitis.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

RESPIRATORY: Irritation, coughing, shortness of breath, chest tightness.

SKIN: Rash, Urticaria.

#### 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:

Foam, extinguishing powder, carbon dioxide.

# Extinguishing media which must not be used for safety reasons:

High pressure waterjet

# ${\bf 5.2.}$ Special hazards arising from the substance or mixture

Danger of decomposition if exposed to heat.

See section 10.

### 5.3. Advice for firefighters

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

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

### 6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes.

Wear protective equipment.

Ensure adequate ventilation.

### 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.

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

Dispose of contaminated material as waste according to Section 13.

### 6.4. Reference to other sections

See advice in section 8

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

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### 7.1. Precautions for safe handling

Avoid skin and eye contact.

Extract when the product is heated.

Ensure good ventilation/suction at the workplace.

See advice in section 8

#### Hygiene measures:

Wash hands before work breaks and after finishing work.

Do not eat, drink or smoke while working.

Good industrial hygiene practices should be observed.

#### 7.2. Conditions for safe storage, including any incompatibilities

Store in sealed original container.

Protect against contamination.

Store in a cool, dry place.

Ensure that storage and workrooms are adequately ventilated.

Must be stored in a room with spill collection facilities.

Keep away from heat and direct sunlight.

#### 7.3. Specific end use(s)

Part B of 2-Component Epoxy Adhesive.

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

#### 8.1. Control parameters

### **Occupational Exposure Limits**

Valid for

Great Britain

Ingredient [Regulated substance]	ppm	mg/m <sup>3</sup>	* 1	Short term exposure limit category / Remarks	Regulatory list
Glycerol		10	Time Weighted Average		EH40 WEL
56-81-5			(TWA):		
[GLYCEROL, MIST]					

### **Biological Exposure Indices:**

None

# 8.2. Exposure controls:

Respiratory protection:

Ensure adequate ventilation.

An approved mask or respirator fitted with an organic vapour cartridge should be worn if the product is used in a poorly ventilated area

Filter type: A

### Hand protection:

Chemical-resistant protective gloves (EN 374).

Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374):

nitrile rubber (NBR; >= 0.4 mm thickness)

Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374):

nitrile rubber (NBR; >= 0.4 mm thickness)

This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

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Eye protection:

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Safety glasses with sideshields or chemical safety goggles should be worn if there is a risk of splashing.

Skin protection:

Wear suitable protective clothing.

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

9.1. Information on basic physical and chemical properties

Appearance low viscosity, liquid

Colorless Odor aromatic

Odour threshold No data available / Not applicable

pH Not applicable Initial boiling point Not applicable > 100 °C (> 212 °F)

Flash point 148,9 °C (300.02 °F); Closed cup Decomposition temperature No data available / Not applicable Vapour pressure No data available / Not applicable

Density 1,2 g/cm<sup>3</sup>

(20°C (68°F))

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) Insoluble

(20 °C (68 °F); 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 No data available / Not applicable Partition coefficient: n-octanol/water No data available / Not applicable Evaporation rate 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

hydrolyses with water gradually

Reaction with water, formation of CO2

Reacts with alcohols and amines.

Reacts with oxidants, acids and lyes

Reaction with some curing agents may produce an exothermic reaction which in large masses could cause runaway polymerization.

### 10.2. Chemical stability

Stable under recommended storage conditions.

#### 10.3. Possibility of hazardous reactions

See section reactivity

### 10.4. Conditions to avoid

No decomposition if stored and applied as directed.

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### 10.5. Incompatible materials

None if used properly.

### 10.6. Hazardous decomposition products

Hydrocarbons carbon oxides. nitrogen oxides

Rapid polymerisation may generate excessive heat and pressure.

# **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

### General toxicological information:

The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation 1272/2008/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.

#### Skin irritation:

Prolonged or repeated contact may cause skin irritation.

### Eye irritation:

Causes serious eye damage.

### Sensitizing:

May cause an allergic skin reaction.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

### Acute oral toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Methylhexahydrophthalic anhydride 19438-60-9	LD50	> 2.000 mg/kg	oral		rat	OECD Guideline 423 (Acute Oral toxicity)
Hexahydromethylphthalic anhydride 25550-51-0	LD50	3.307 mg/kg	oral		rat	

## Acute dermal toxicity:

Hazardous components	Value	Value	Route of	Exposure	Species	Method
CAS-No.	type		application	time		
Hexahydromethylphthalic	LD50	> 2.000 mg/kg	dermal		rabbit	
anhydride						
25550-51-0						

### Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Methylhexahydrophthalic	moderately irritating	24 h	rabbit	
anhydride				
19438-60-9				

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Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Methylhexahydrophthalic anhydride 19438-60-9	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Hexahydromethylphthalic anhydride 25550-51-0	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)

## Reproductive toxicity:

Hazardous substances CAS-No.	Result / Classification	Species	Exposure time	Species	Method
Hexahydromethylphthalic anhydride 25550-51-0	NOAEL P = 450 mg/kg	screening oral: gavage		rat	OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test)

## Repeated dose toxicity

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
Hexahydromethylphthalic	NOAEL=450	oral: gavage	28 d4 consecutive	rat	OECD Guideline 407
anhydride	mg/kg		weeks/daily		(Repeated Dose 28-Day Oral
25550-51-0			-		Toxicity in Rodents)

# **SECTION 12: Ecological information**

## General ecological information:

The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation 1272/2008/EC. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

# 12.1. Toxicity

### **Ecotoxicity:**

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

Hazardous components	Value	Value	Acute	Exposure	Species	Method
CAS-No.	type		Toxicity	time		
			Study			
Methylhexahydrophthalic	LC50	660 mg/l	Fish	48 h	Leuciscus idus	OECD Guideline
anhydride						203 (Fish, Acute
19438-60-9						Toxicity Test)
Methylhexahydrophthalic	EC50	103 mg/l	Daphnia	24 h	Daphnia magna	OECD Guideline
anhydride						202 (Daphnia sp.
19438-60-9						Acute
						Immobilisation
						Test)
Hexahydromethylphthalic	LC50	500 mg/l	Fish	48 h	Oryzias latipes	OECD Guideline
anhydride						203 (Fish, Acute
25550-51-0						Toxicity Test)
Hexahydromethylphthalic	EC50	103 mg/l	Daphnia	24 h	Daphnia magna	OECD Guideline
anhydride						202 (Daphnia sp.
25550-51-0						Acute
						Immobilisation
				[		Test)

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### 12.2. Persistence and degradability

### Persistence and Biodegradability:

The product is not biodegradable.

### 12.3. Bioaccumulative potential / 12.4. Mobility in soil

### Mobility:

Cured adhesives are immobile.

### **Bioaccumulative potential:**

No data available.

Hazardous components	LogKow	Bioconcentration	Exposure	Species	Temperature	Method
CAS-No.		factor (BCF)	time			
Hexahydromethylphthalic	2,59					
anhydride						
25550-51-0						

### 12.5. Results of PBT and vPvB assessment

No data available.

### 12.6. Other adverse effects

No data available.

# **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

Product disposal:

Dispose of in accordance with local and national regulations.

Disposal of uncleaned packages:

Disposal must be made according to official regulations.

Use packages for recycling only when totally empty.

Packaging that cannot be cleaned are to be disposed of in the same manner as the product.

### Waste code

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

The valid EWC waste code numbers are source-related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users. We will be happy to advise you.

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## **SECTION 14: Transport information**

#### 14.1. UN number

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

### 14.2. UN proper shipping name

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

#### 14.3. Transport hazard class(es)

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

### 14.4. Packaging group

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

#### 14.5. Environmental hazards

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

### 14.6. Special precautions for user

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

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not applicable

## **SECTION 15: Regulatory information**

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

VOC content (1999/13/EC) < 3 %

# 15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

### **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:

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

## 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.

Relevant changes in this safety data sheet are indicated by vertical lines at the left margin in the body of this document. Corresponding text is displayed in a different color on shadowed fields.