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

SDS No. : 273641
V004.0

UniBond Silicone Sealant Remover

Revision: 17.01.2018
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Replaces version from: 01.03.2017

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

1.1. Product identifier
UniBond Silicone Sealant Remover

Contains:
Dibutyl hydrogen phosphate
bis(2-ethylhexyl) hydrogen phosphate

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

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-productsafety.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 (CLP):

Flammable solids	Category 1
H228 Flammable solid.	
Skin corrosion	Category 1B
H314 Causes severe skin burns and eye damage.	
Serious eye damage	Category 1
H318 Causes serious eye damage.	
Carcinogenicity	Category 2
H351 Suspected of causing cancer.	

2.2. Label elements

Label elements (CLP):

Hazard pictogram:	
Signal word:	Danger
Hazard statement:	H228 Flammable solid. H314 Causes severe skin burns and eye damage. H351 Suspected of causing cancer.
Precautionary statement:	P102 Keep out of reach of children. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P260 Do not breathe vapours. P280 Wear protective gloves/eye protection. P310 Immediately call a POISON CENTER or doctor. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P501 Dispose of contents/container in accordance with national regulation.

2.3. Other hazards

Solvents contained in the product evaporate during processing and their vapors can form explosive/highly inflammable air/vapor mixtures.
Pregnant women should absolutely avoid inhalation and skin contact.
Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General chemical description:
Adhesive remover
Base substances of preparation:
Mineral oil
Phosphates
Mineral fillers

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

Hazardous components CAS-No.	EC Number REACH-Reg No.	content	Classification
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatic 1174522-09-8	918-481-9 01-2119457273-39	60- 80 %	Asp. Tox. 1 H304
Dibutyl hydrogen phosphate 107-66-4	203-509-8 01-2119974583-26	20- 40 %	Skin Corr. 1B H314 Carc. 2 H351
bis(2-ethylhexyl) hydrogen phosphate 298-07-7	206-056-4	1- < 5 %	Acute Tox. 4 H312 Skin Corr. 1B H314

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

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. Skin care. Remove contaminated clothes immediately.

Eye contact:
Immediately flush eyes with soft jet of water or eye rinse solution for at least 15 minutes. Hold eyelid wide-open. Seek a doctor/hospital, eye flushing should continue during transportation to a doctor.

Ingestion:
Rinse the mouth. Drink plenty of water. Immediate medical advice necessary.
Do not induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed
Causes burns.

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) and carbon dioxide (CO2) can be released.

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

Additional information:
Cool endangered containers with water spray jet.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Wear protective equipment.
Avoid contact with skin and eyes.
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.
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

7.1. Precautions for safe handling

Ventilate working rooms thoroughly. Avoid naked flames, sparking and sources of ignition. Switch off electrical devices. Do not smoke, do not weld. Do not empty waste into waste water drains.

During processing and drying after adhesion, ventilate well. Avoid all sources of fire such as stoves and ovens. Switch off all electrical devices such as parabolic heaters, hot plates, storage heaters etc. in good time for them to have cooled down before commencing work. Avoid all sparks, including those occurring at electrical switches and devices.

Hygiene measures:

Do not eat, drink or smoke while working.

Wash hands before work breaks and after finishing work.

7.2. Conditions for safe storage, including any incompatibilities

Ensure good ventilation/extraction.
Store in a cool, dry place.
Avoid strictly temperatures below + 2°C and above + 30 °C.
Keep container tightly sealed.
Do not store together with food or other consumables (coffee, tea, tobacco, etc.).

7.3. Specific end use(s)

Silicon remover

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

Valid for
Great Britain

Ingredient [Regulated substance]	ppm	mg/m³	Value type	Short term exposure limit category / Remarks	Regulatory list
Dibutyl hydrogen phosphate 107-66-4 [DIBUTYL HYDROGEN PHOSPHATE]	2	17	Short Term Exposure Limit (STEL):		EH40 WEL
Dibutyl hydrogen phosphate 107-66-4 [DIBUTYL HYDROGEN PHOSPHATE]	1	8,7	Time Weighted Average (TWA):		EH40 WEL
Silicon dioxide 112945-52-5 [SILICA, AMORPHOUS, INHALABLE DUST]		6	Time Weighted Average (TWA):		EH40 WEL
Silicon dioxide 112945-52-5 [SILICA, AMORPHOUS, RESPIRABLE DUST]		2,4	Time Weighted Average (TWA):		EH40 WEL

Occupational Exposure Limits

Valid for
Ireland

Ingredient [Regulated substance]	ppm	mg/m³	Value type	Short term exposure limit category / Remarks	Regulatory list
Dibutyl hydrogen phosphate 107-66-4 [DIBUTYL HYDROGEN PHOSPHATE (INHALABLE FRACTION AND VAPOUR)]		5	Time Weighted Average (TWA):		IR_OEL
Dibutyl hydrogen phosphate 107-66-4 [DIBUTYL HYDROGEN PHOSPHATE (INHALABLE FRACTION AND VAPOUR)]	2	10	Short Term Exposure Limit (STEL):		IR_OEL
Silicon dioxide 112945-52-5 [SILICA, AMORPHOUS, TOTAL INHALABLE DUST]		6	Time Weighted Average (TWA):		IR_OEL
Silicon dioxide 112945-52-5 [SILICA, AMORPHOUS, RESPIRABLE DUST]		2,4	Time Weighted Average (TWA):		IR_OEL

Derived No-Effect Level (DNEL):

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
Dibutyl hydrogen phosphate 107-66-4	General population	oral	Long term exposure - systemic effects		0,22 mg/kg	
Dibutyl hydrogen phosphate 107-66-4	General population	oral	Acute/short term exposure - systemic effects		0,88 mg/kg	
Dibutyl hydrogen phosphate 107-66-4	Workers	inhalation	Acute/short term exposure - systemic effects		5 mg/m3	
Dibutyl hydrogen phosphate 107-66-4	Workers	inhalation	Long term exposure - local effects		1 mg/m3	
Dibutyl hydrogen phosphate 107-66-4	Workers	inhalation	Acute/short term exposure - local effects		1 mg/m3	
Dibutyl hydrogen phosphate 107-66-4	General population	inhalation	Long term exposure - systemic effects		0,31 mg/m3	
Dibutyl hydrogen phosphate 107-66-4	General population	inhalation	Acute/short term exposure - systemic effects		1,24 mg/m3	
Dibutyl hydrogen phosphate 107-66-4	Workers	inhalation	Long term exposure - systemic effects		1,25 mg/m3	
Dibutyl hydrogen phosphate 107-66-4	Workers	dermal	Long term exposure - systemic effects		0,44 mg/kg	
Dibutyl hydrogen phosphate 107-66-4	General population	dermal	Long term exposure - systemic effects		0,22 mg/kg	
Dibutyl hydrogen phosphate 107-66-4	General population	dermal	Acute/short term exposure - systemic effects		0,88 mg/kg	
Dibutyl hydrogen phosphate 107-66-4	Workers	dermal	Acute/short term exposure - systemic effects		1,78 mg/kg	

Biological Exposure Indices:
None

8.2. Exposure controls:

Respiratory protection:
Suitable breathing mask when there is inadequate ventilation.
Combination filter: ABEKP (EN 14387)
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 > 480 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:
Goggles which can be tightly sealed.
Protective eye equipment should conform to EN166.

Skin protection:
Suitable protective clothing
Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

Advices to personal protection equipment:
The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions. Personal protective equipment should conform to the relevant EN standard.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	paste high viscosity colourless
Odor	characteristic
Odour threshold	No data available / Not applicable
pH	No data available / Not applicable
Melting point	No data available / Not applicable
Solidification temperature	No data available / Not applicable
Initial boiling point	No data available / Not applicable
Flash point	No data available / Not applicable
Evaporation rate	No data available / Not applicable
Flammability	No data available / Not applicable
Explosive limits	No data available / Not applicable
Vapour pressure	No data available / Not applicable
Relative vapour density:	No data available / Not applicable
Density (23 °C (73.4 °F))	0,89 g/cm3
Bulk density	No data available / Not applicable
Solubility	No data available / Not applicable
Solubility (qualitative) (23 °C (73.4 °F); Solvent: Water)	Insoluble
Partition coefficient: n-octanol/water	No data available / Not applicable
Auto-ignition temperature	No data available / Not applicable
Decomposition temperature	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
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
None known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Species	Method
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatic 1174522-09-8	LD50	> 5.000 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
Dibutyl hydrogen phosphate 107-66-4	LD50	> 2.000 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)

Acute dermal toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Species	Method
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatic 1174522-09-8	LD50	> 5.000 mg/kg	rabbit	OECD Guideline 402 (Acute Dermal Toxicity)

Acute inhalative toxicity:

The toxicity of the product is due to its narcotic effect after inhalation.
In the event of protracted or repeated exposure, damage to health cannot be excluded.

Hazardous substances CAS-No.	Value type	Value	Test atmosphere	Exposure time	Species	Method
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatic 1174522-09-8	LC50	> 5,6 mg/l	aerosol	4 h	rat	OECD Guideline 403 (Acute Inhalation Toxicity)

Skin corrosion/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatic 1174522-09-8	not irritating		rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious eye damage/irritation:

No data available.

Respiratory or skin sensitization:

No data available.

Germ cell mutagenicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
bis(2-ethylhexyl) hydrogen phosphate 298-07-7	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		not specified

Carcinogenicity

Suspected of causing cancer

No substance data available.

Reproductive toxicity:

No data available.

STOT-single exposure:

No data available.

STOT-repeated exposure::

No data available.

Aspiration hazard:

The mixture is classified based on Viscosity data.

Hazardous substances CAS-No.	Viscosity (kinematic) Value	Temperature	Method	Remarks
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatic 1174522-09-8	1,13 mm2/s	40 °C	not specified	

SECTION 12: Ecological information

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

12.1. Toxicity

Toxicity (Fish):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatic 1174522-09-8	LL50	> 1.000 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
Dibutyl hydrogen phosphate 107-66-4	LC50	> 100 mg/l	96 h	Brachydanio rerio (new name: Danio rerio)	EU Method C.1 (Acute Toxicity for Fish)
bis(2-ethylhexyl) hydrogen phosphate 298-07-7	LC50	30 mg/l	96 h	Salmo gairdneri (new name: Oncorhynchus mykiss)	OECD Guideline 203 (Fish, Acute Toxicity Test)

Toxicity (Daphnia):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatic 1174522-09-8	EL50	> 1.000 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Dibutyl hydrogen phosphate 107-66-4	EC50	> 100 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
bis(2-ethylhexyl) hydrogen phosphate 298-07-7	EC50	27,2 mg/l	96 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

Chronic toxicity to aquatic invertebrates

No data available.

Toxicity (Algae):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatic 1174522-09-8	EL50	> 1.000 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatic 1174522-09-8	NOELR	1.000 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Dibutyl hydrogen phosphate 107-66-4	EC50	> 100 mg/l	72 h	Desmodesmus subspicatus (reported as Scenedesmus subspicatus)	EU Method C.3 (Algal Inhibition test)
Dibutyl hydrogen phosphate 107-66-4	EC10	76 mg/l	72 h	Desmodesmus subspicatus (reported as Scenedesmus subspicatus)	EU Method C.3 (Algal Inhibition test)

Toxicity to microorganisms

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Dibutyl hydrogen phosphate 107-66-4	EC 50	> 10.000 mg/l	3 h	not specified	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)

12.2. Persistence and degradability

Hazardous substances CAS-No.	Result	Test type	Degradability	Exposure time	Method
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatic 1174522-09-8	readily biodegradable, but failing 10-day window	aerobic	80 %	28 d	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
Dibutyl hydrogen phosphate 107-66-4	not readily biodegradable.	aerobic	12 %	28 day	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
Dibutyl hydrogen phosphate 107-66-4	inherently biodegradable	aerobic	> 98 %	28 day	OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test)
bis(2-ethylhexyl) hydrogen phosphate 298-07-7			75 %	28 d	OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))

12.3. Bioaccumulative potential

Hazardous substances CAS-No.	Bioconcentration factor (BCF)	Exposure time	Temperature	Species	Method
Dibutyl hydrogen phosphate 107-66-4	< 7	42 day	25 °C	Cyprinus carpio	OECD Guideline 305 C (Bioaccumulation: Test for the Degree of Bioconcentration in Fish)

12.4. Mobility in soil

Hazardous substances CAS-No.	LogPow	Temperature	Method
Dibutyl hydrogen phosphate 107-66-4	2,89		QSAR (Quantitative Structure Activity Relationship)
bis(2-ethylhexyl) hydrogen phosphate 298-07-7	6,07		not specified

12.5. Results of PBT and vPvB assessment

Hazardous substances CAS-No.	PBT / vPvB
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatic 1174522-09-8	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

12.6. Other adverse effects

No data available.

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
140603

SECTION 14: Transport information

14.1. UN number

ADR	2925
RID	2925
ADN	2925
IMDG	2925
IATA	2925

14.2. UN proper shipping name

ADR	FLAMMABLE SOLID, CORROSIVE, ORGANIC, N.O.S. (Solvent naphtha,Dibutyl hydrogen phosphate)
RID	FLAMMABLE SOLID, CORROSIVE, ORGANIC, N.O.S. (Solvent naphtha,Dibutyl hydrogen phosphate)
ADN	FLAMMABLE SOLID, CORROSIVE, ORGANIC, N.O.S. (Solvent naphtha,Dibutyl hydrogen phosphate)
IMDG	FLAMMABLE SOLID, CORROSIVE, ORGANIC, N.O.S. (Solvent naphtha,Dibutyl hydrogen phosphate)
IATA	Flammable solid, corrosive, organic, n.o.s. (Solvent naphtha,Dibutyl hydrogen phosphate)

14.3. Transport hazard class(es)

ADR	4.1 (8)
RID	4.1 (8)
ADN	4.1 (8)
IMDG	4.1 (8)
IATA	4.1 (8)

14.4. Packing group

ADR	II
RID	II
ADN	II
IMDG	II
IATA	II

14.5. Environmental hazards

ADR	not applicable
RID	not applicable
ADN	not applicable
IMDG	not applicable
IATA	not applicable

14.6. Special precautions for user

ADR	not applicable Tunnelcode: (E)
RID	not applicable
ADN	not applicable
IMDG	not applicable
IATA	not applicable

14.7. Transport in bulk according to Annex II of Marpol 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 60,1 %

(VOCV 814.018 VOC regulation
CH)

List of ingredients according to Detergents regulation.

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatic
Dibutyl hydrogen phosphate
Silica, amorphous, fumed, crystal-free
bis(2-ethylhexyl) hydrogen phosphate

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:

H304 May be fatal if swallowed and enters airways.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H351 Suspected of causing cancer.

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.