



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

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TEROKAL 5055 KOMP.B EX HF

sds no. : 352466

V004.0

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

Product identifier:

TEROKAL 5055 KOMP.B EX HF

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

Seam sealant

Details of the supplier of the safety data sheet:

Henkel Limited
Technologies House
Wood Lane End
HP2 4RQ Hemel Hempstead

Great Britain

Phone: +44 (0)1442 278000

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Emergency telephone number:

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

2. Hazards identification

Classification of the substance or mixture:

Classification (CLP):

No data available.

Classification (DPD):

Corrosive
R34 Causes burns.
Xn - Harmful
R22 Harmful if swallowed.
Sensitizing
R43 May cause sensitisation by skin contact.
N - Dangerous for the environment
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Label elements (CLP):

No data available.

Label elements (DPD):

N - Dangerous for the environment

C - Corrosive

**Risk phrases:**

- R22 Harmful if swallowed.
- R34 Causes burns.
- R43 May cause sensitisation by skin contact.
- R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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.
- S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
- S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- S61 Avoid release to the environment. Refer to special instructions/Safety data sheets.

Contains:

- 3-Aminopropyldimethylamine,
- Triethylenetetramine,
- Trimethylolpropane poly(oxypropylene)triamine 5-6PO

3. Composition/information on ingredients**General chemical description:**

Part B of a two part adhesive

Base substances of preparation:

Polyethylene

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

Hazardous components CAS-No.	EINECS REACH-Reg No.	content	Classification
Fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines 68410-23-1		< 40 %	Serious eye damage 1 H318 Acute hazards to the aquatic environment 1 H400 Chronic hazards to the aquatic environment 1 H410
3-Aminopropyldimethylamine 109-55-7	203-680-9	< 20 %	Skin corrosion 1B H314 Flammable liquids 3 H226 Acute toxicity 4; Oral H302 Skin sensitizer 1 H317
Triethylenetetramine 112-24-3	203-950-6	< 5 %	Skin corrosion 1B H314 Skin sensitizer 1 H317 Chronic hazards to the aquatic environment 3 H412 Acute toxicity 4; Dermal H312

**Only dangerous ingredients for which a CLP classification is already available are displayed in this table.
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.	EINECS REACH-Reg No.	content	Classification
Fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines 68410-23-1		< 40 %	Xi - Irritant; R41 N - Dangerous for the environment; R50/53
Trimethylolpropane poly(oxypropylene)triamine 5-6PO 39423-51-3		< 40 %	C - Corrosive; R34 Xn - Harmful; R21/22
3-Aminopropyl dimethylamine 109-55-7	203-680-9	< 20 %	R43 R10 Xn - Harmful; R22 C - Corrosive; R34
Triethylenetetramine 112-24-3	203-950-6	< 5 %	Xn - Harmful; R21 C - Corrosive; R34 R52, R53 R43
calcium silicate 10101-39-0	233-250-6	< 10 %	Xi - Irritant; R36/37

**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

Description of first aid measures:**Inhalation:**

Fresh air, oxygen supply, warmth; seek specialist medical attention.

Skin contact:

Rinse with running water and soap. Apply replenishing cream. Change all contaminated clothing. If necessary, see a dermatologist.

Eye contact:

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

Ingestion:

Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor.
Seek medical advice immediately and show this container or label.

Most important symptoms and effects, both acute and delayed:

No data available.

Indication of any immediate medical attention and special treatment needed:

Move to fresh air, consult doctor if complaint persists.

5. Firefighting measures

Extinguishing media:**Suitable extinguishing media:**

All common extinguishing agents are suitable.

Extinguishing media which must not be used for safety reasons:

High pressure waterjet

Special hazards arising from the substance or mixture:

In the event of a fire, carbon monoxide (CO) and carbon dioxide (CO₂) can be released.

Advice for firefighters:

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

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Wear protective equipment.
Avoid contact with skin and eyes.
See advice in chapter 8

Environmental precautions:

Do not empty into drains / surface water / ground water.
Inform authorities in the event of product spillage to water courses or sewage systems.

Methods and material for containment and cleaning up:

Remove mechanically.
Dispose of contaminated material as waste according to Chapter 13.

7. Handling and storage

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.

Conditions for safe storage, including any incompatibilities:

Ensure good ventilation/extraction.
Store in a cool, dry place.
Temperatures between + 5 °C and + 35 °C

Specific end use(s):

Seam sealant

8. Exposure controls/personal protection

Control parameters:

None

Exposure controls:

Engineering controls:

Ensure good ventilation/extraction.

Respiratory protection:

Suitable breathing mask when there is inadequate ventilation.

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): Isobutylene-isoprene rubber (IIR; >= 0.7 mm thickness) Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374): Isobutylene-isoprene rubber (IIR; >= 0.7 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.

Eye protection:

Wear protective glasses with side-pieces.

Skin protection:

Wear protective equipment.
Protective clothing that covers arms and legs.

Advices to personal protection equipment:

Use only personal protection that's CE-labelled according to the regulation no. 819 of 19 August 1994.

9. Physical and chemical properties

Information on basic physical and chemical properties:

Appearance	Paste pasty beige
Odor	Amine-like
pH	No data available.
Initial boiling point	No data available.
Flash point	> 100 °C (> 212 °F)
Decomposition temperature	No data available.
Vapour pressure	No data available.
Density (20 °C (68 °F))	0,78 g/cm ³
Bulk density	No data available.
Viscosity (; 23 °C (73.4 °F))	15 pa.s
Viscosity (kinematic)	No data available.
Explosive properties	No data available.
Solubility (qualitative) (20 °C (68 °F); Solvent: Water)	Insoluble
Solidification temperature	No data available.
Melting point	No data available.
Flammability	No data available.
Auto-ignition temperature	No data available.
Explosive limits	No data available.
Partition coefficient: n-octanol/water	No data available.
Evaporation rate	No data available.
Vapor density	No data available.
Oxidising properties	No data available.

Other information:

No data available.

10. Stability and reactivity

Reactivity:

None if used for intended purpose.

Chemical stability:

Stable under recommended storage conditions.

Possibility of hazardous reactions:

See section reactivity

Conditions to avoid:

None if used for intended purpose.

Hazardous decomposition products:

No decomposition if used according to specifications.

11. Toxicological information**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.
Causes burns.

Oral toxicity:

Harmful if swallowed.

Sensitizing:

May cause sensitization by skin contact.

Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
3-Aminopropyldimethylamine 109-55-7	sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
3-Aminopropyldimethylamine 109-55-7	sensitising		guinea pig	

Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Triethylenetetramine 112-24-3	positive	bacterial forward mutation assay	with and without		

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.
Very toxic to aquatic organisms.
May cause long-term adverse effects in the aquatic environment.
Do not empty into drains, soil or bodies of water.

Toxicity:

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
3-Aminopropyl dimethylamine 109-55-7	LC50	122 mg/l	Fish	96 h	Leuciscus idus	
3-Aminopropyl dimethylamine 109-55-7	EC50	59,5 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
3-Aminopropyl dimethylamine 109-55-7	EC50	56,2 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Triethylenetetramine 112-24-3	LC50	570 mg/l	Fish	96 h	Poecilia reticulata	OECD Guideline 203 (Fish, Acute Toxicity Test)
Triethylenetetramine 112-24-3	EC50	31 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Triethylenetetramine 112-24-3	EC50	20 mg/l	Algae	72 h	Selenastrum capricornutum (new name: Pseudokirchnerella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)

Persistence and degradability:

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
3-Aminopropyl dimethylamine 109-55-7	readily biodegradable	aerobic	65 %	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)

Bioaccumulative potential / Mobility in soil:

Hazardous components CAS-No.	LogKow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
3-Aminopropyl dimethylamine 109-55-7	-0,352				25 °C	OECD Guideline 107 (Partition Coefficient (n- octanol / water), Shake Flask Method)
Triethylenetetramine 112-24-3	-2,65					

13. Disposal considerations**Waste treatment methods:**

Product disposal:

The valid EEC waste code numbers are not product-related but are largely source-related. These can be requested from the manufacturer.

In consultation with the responsible local authority, must be subjected to special treatment.

14. Transport information**Road transport ADR:**

Class: 8
Packaging group: III
Classification code: C8
Hazard ident. number: 80
UN no.: 3259
Label: 8
Technical name: AMINES, SOLID, CORROSIVE, N.O.S.
(Dimethylaminopropylamine, Triethylenetetramine, Polyamide resin)
Tunnelcode: (E)
Additional substance property: Environmentally Hazardous

Railroad transport RID:

Class: 8
Packaging group: III
Classification code: C8
Hazard ident. number: 80
UN no.: 3259
Label: 8
Technical name: AMINES, SOLID, CORROSIVE, N.O.S.
(Dimethylaminopropylamine, Triethylenetetramine, Polyamide resin)
Tunnelcode:
Additional substance property: Environmentally Hazardous

Inland water transport ADN:

Class: 8
Packaging group: III
Classification code: C8
Hazard ident. number: 80
UN no.: 3259
Label: 8
Technical name: AMINES, SOLID, CORROSIVE, N.O.S.
(Dimethylaminopropylamine, Triethylenetetramine, Polyamide resin)
Additional substance property: Environmentally Hazardous

Marine transport IMDG:

Class: 8
Packaging group: III
UN no.: 3259
Label: 8
EmS: F-A ,S-B
Seawater pollutant: Marine pollutant
Proper shipping name: AMINES, SOLID, CORROSIVE, N.O.S.
(Dimethylaminopropylamine, Triethylenetetramine, Polyamide resin)

Air transport IATA:

Class: 8
Packaging group: III
Packaging instructions (passenger): 822
Packaging instructions (cargo): 823
UN no.: 3259
Label: 8
Proper shipping name: Amines, solid, corrosive, n.o.s.
(Dimethylaminopropylamine, Triethylenetetramine, Polyamide resin)

15. Regulatory information**Safety, health and environmental regulations/legislation specific for the substance or mixture:**

VOC content 0,00 %

(VOCV 814.018 VOC regulation
CH)

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.
- R21 Harmful in contact with skin.
- R21/22 Harmful in contact with skin and if swallowed.
- R22 Harmful if swallowed.
- R34 Causes burns.
- R36/37 Irritating to eyes and respiratory system.
- R41 Risk of serious damage to eyes.
- R43 May cause sensitisation by skin contact.
- R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R52 Harmful to aquatic organisms.
- R53 May cause long-term adverse effects in the aquatic environment.

- H226 Flammable liquid and vapour.
- H302 Harmful if swallowed.
- H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- 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.

This safety data sheet was prepared in accordance with Council Directive 67/548/EEC and its subsequent amendments, and Commission Directive 1999/45/EC.