

MATERIAL: TECHSIL® 1387 BLACK

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

- 1.1 Product Name:** Techsil® 1387 Black
1.2 Product Use: Adhesive Sealant
1.3 Supplier: Techsil Ltd
34 Bidavon Industrial Estate
Waterloo Road
Bidford on Avon
Warwickshire
B50 4JN
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- 1.4 Emergency Telephone:** +44(0)7971 228794

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture:

Classification under CLP: Skin Sens.1: H317
Eye Irrit. 2 : H319
Classification under 67/548/EEC and 1999/45/EC Directives and following amendments and adjustments:
Danger Symbols: Xi
R Phrases: 43

The full wording of the Risk (R) and hazard (H) phrases is given in section 16 of the sheet

2.2 Label Elements:

Label elements under CLP:

Hazard statements: H319: Causes serious eye irritation.
H317: May cause an allergic skin reaction
EUH208: BUTAN-2-ONE O, O',O'',O''' – SILANETETRAYLTETRAOXIME
May produce an allergic reaction

Signal words: Warning

Hazard pictograms: GHS07: Exclamation mark



Precautionary statements: P264: Wash...thoroughly after handling.
P280: Wear protective gloves/protective clothing/eye protection/face protection
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention
Contains VINYLTRIS (2-BUTANONEOXIME) SILANE

2.3 Other Hazards:

Information not available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances:

Information not relevant

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3.2 Mixtures:

Hazardous ingredients:

VINYLTRIS (2-BUTANONEOXIME) SILANE

CAS	EC	INDEX	Conc . %	Classification 67/548/EEC	Classification 1272/2008 (CLP)
2224-33-1	218-747-8	-	1-5	Xi R36/38, Xi R43	Eye Irrit.2 :H319 ;Skin Irrit.2 :H315 ;Skin Sens. 1:H317

TOLUENE

CAS	EC	INDEX	Conc. %	Classification 67/548/EEC	Classification 1272/2008 (CLP)
108-88-3	203-625-9	601-021-00-3	0-0.1	Repr.Cat.3:R63,R67,F R11, Xn R48/20,Xn R65, Xi R38	Flam. Liq.2:H225, Repr.2: H361d, Asp.Tox.1:H305;STOT RE 2: H373;Skin Irrit.2:H315;STOT SE 3: H336

Note : Upper limit is not included into the range

The full wording of the Risk (R) and hazard (H) phrases is given in section 16 of the sheet

SECTION 4: FIRST AID MEASURES

4.1 Description of First Aid Measures:

Not specifically necessary. Observance of good industrial hygiene is recommended.

4.2 Most Important Symptoms and Effects, both Acute and Delayed:

No episodes of damage to health ascribable to the product have been reported.

4.3 Indication of any Immediate Medical Attention and Special Treatment Needed:

Information not available.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing Media:

Suitable extinguishing equipment: - Extinguishing substances are: Carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

Unsuitable extinguishing equipment: - Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames or prevent explosions.

5.2 Special Hazards Arising from the Substance or Mixture:

Excess pressure may form in containers exposed to fire at a risk of explosion. Do not breather combustion products.

5.3 Advice for Fire-fighters:

GENERAL INFORMATION

Use jets of water to cool the containers to prevent decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), Gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self contained open circuit positive compressed air breathing apparatus (BS EN 137).

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Use breathing equipment if fumes or powders are released into the air. These indications apply for both processing staff and those involved in emergency procedures.

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6.2 Environmental Precautions:

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3 Methods and Material for Containment and Cleaning-Up:

Confine using earth or inert material. Collect as much material as possible and eliminate the rest using jets of water. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4 Reference to Other Sections:

Refer to section 8 and 13 of SDS.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for Safe Handling:

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use.

7.2 Conditions for Safe Storage, Including and Incompatibilities:

Keep the product in clearly labelled containers. Keep containers away from any incompatible materials, see section 10 for details.

7.3 Specific End Use(s):

Information not available

SECTION 8: HANDLING AND STORAGE

8.1 Control Parameters:

Information not available.

8.2 Exposure Controls:

Engineering measures:

As the use of adequate technical equipment must always take priority over personal protection equipment, make sure that the workplace is well aired through effective local aspiration. Personal protection equipment must comply with the rules in force indicated below.

Respiratory protection:

If the threshold value (if available) for one or more of the substances present in the preparation for daily exposure in the workplace or to a fraction established by the company's prevention and protection service is exceeded, wear a mask with an A or universal filter, the class (1, 2 or 3) of which must be chosen according to the limit concentration of use (ref. Standard EN 141).

The use of respiratory tract protection equipment, such as masks like that indicated above, is necessary to reduce worker exposure in the absence of technical measures. The protection provided by masks is in any case limited.

If the substance in question is odourless or its olfactory threshold is higher than the relative exposure limit and in the event of an emergency, or when exposure levels are unknown or the concentration of oxygen in the workplace is less than 17% volume, wear self-contained, open-circuit compressed air breathing apparatus (ref. Standard EN 137) or fresh air hose breathing apparatus for use with full face mask, half mask or mouthpiece (ref. Standard EN 138).

An emergency eye washing and shower system must be provided.

Hand protection:

Protect hands with category II (ref. Directive 89/686/EEC and standard EN 374) work gloves, such as those in PVC, neoprene, nitril or equivalent. The following should be considered when choosing work glove material: degradation, breakage times and permeation. Work glove resistance to preparations should be checked before use, as it can be unpredictable. Gloves' limit depends on the duration of exposure.

Eye protection:

Wear protective airtight goggles (ref. Standard EN 166)

Skin protection:

Wear category II professional long-sleeved overalls and safety footwear (ref. Directive 89/686/CEE and standard EN 344). Wash body with soap and water after removing overalls.

Environmental

The emissions generated by manufacturing processes, including those generated

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exposure controls: by ventilation equipment, should be checked to ensure compliance with environmental standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties:

Appearance:	Viscous Liquid
Colour:	Black
Odour:	Characteristic
Odour threshold:	Not Available
pH.:	Not Available
Melting point/freezing point:	Not Available
Initial boiling point:	Not Available
Boiling range:	Not Available
Flash point:	>150°C
Evaporation rate:	Not Available
Flammability of solids and gases:	Not Available
Lower inflammability limit:	Not Available
Upper inflammability limit:	Not Available
Lower explosive limit:	Not Available
Upper explosive limit:	Not Available
Vapour pressure:	Not Available
Vapour density:	Not Available
Relative density:	Not Available
Solubility:	Immiscible with water
Partition coefficient : n-octanol/water	Not Available
Auto-ignition temperature:	>400°C
Decomposition temperature:	Not Available
Viscosity:	Not Available
Explosive properties:	Not Available
Oxidising properties:	Not Available

9.2 Other Information:

No data available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

There are no particular risks of reaction with other substances in normal conditions of use.

10.2 Chemical Stability:

The product is stable in normal conditions of use and storage.

10.3 Possibility of Hazardous Reactions:

No hazardous reactions are foreseeable in normal conditions of use and storage.

10.4 Conditions to Avoid:

None in particular. However the usual precautions used for chemical products should be respected.

10.5 Incompatible Materials:

Information not available.

10.6 Hazardous Decomposition Products:

Information not available.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects:

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

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Upon contact with skin, this product causes sensitization (dermatitis). Dermatitis derives from skin irritation on the areas which repeatedly come into contact with the sensitizing agent. Cutaneous lesions may include: erythemas, edemas, papules, vesicles, pustules, scurries, ulcerations and exudative phenomena, whose intensity varies according to illness seriousness and affected areas. Erythemas, edemas and exudative phenomena prevail during the acute phase. Scurfy skin, dryness, ulcerations and skin thickening prevail during chronic phase

Toxicity values:

VINYLTRIS (2-BUTANONEOXIME) SILANE

Route	Species	Test	Value	Units
ORAL		LD50	2528	mg/kg
Toluene				
ORAL	RAT	LD50	5580	mg/kg
DERMAL	RABBIT	LD50	12124	mg/kg
INHALATION	RAT	LC50	28.1	mg/l/4h

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity:

Information not available.

12.2 Persistence and Degradability:

Information not available.

12.3 Bioaccumulative Potential:

Information not available.

12.4 Mobility in Soil:

Information not available.

12.5 Results of PBT and vPvB Assessment:

On the basis of available data, the product does not contain

12.6 Other Adverse Effects:

Information not available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods:

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Avoid littering. Do not contaminate soil, sewers and waterways.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14: TRANSPORT INFORMATION

14.1 UN Number:

N/A

14.2 UN Proper Shipping Name:

N/A

14.3 Transport Hazard Class(es):

N/A

14.4 Packing Group:

N/A

14.5 Environmental Hazards:

N/A

14.6 Special Precautions for User:

N/A

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14.7 Transport in Bulk According to Annex II of MARPOL73/78 and the IBC Code:

N/A

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and the International Air Transport Association (IATA) regulations.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, Health & Environmental Regulations/Legislation Specific for the Substance or Mixture:

Seveso category:

None

Restricted relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006 product:

Point 3

Substances in Candidate List (Art. 59 REACH):

None.

Substances subject to authorisation (Annex XIV REACH):

None.

Substances subject to exportation reporting pursuant to (EC) Reg. 689/2008.:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None.

Healthcare controls:

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the worker's health and safety are modest and that the 98/24/EC directive is respected.

15.2 Chemical Safety Assessment:

No chemical safety assessment has been processed for the mixture and the substances it contains.

SECTION 16: OTHER INFORMATION

Text of hazard (H) indicates mentioned in section 2-3 of the sheet:

Flam. Liq.2	Flammable liquid, category 2
Repr. 2	Reproductive toxicity, category 2
Asp. Tox. 1	Aspiration hazard, category 1
STOT RE 2	Specific target organ toxicity – repeated exposure, category 2
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
Skin Sens. 1	Skin sensitization, category 1
STOT SE 3	Specific target organ toxicity – single exposure, category 3
H225	Highly flammable liquid and vapour.
H361d	Suspected of damaging the unborn child.
H304	May be fatal if swallowed and enters airways.
H373	May cause damage to organs through prolonged or repeated exposure.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness

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Text of risk (R) phrases mentioned in section 2-3 of the sheet:

R11	HIGHLY FLAMMABLE.
R36/38	IRRITATING TO SKIN AND EYES
R38	IRRITATING TO SKIN
R43	MAY CAUSE SENSITISATION BY SKIN CONTACT
R48/20	HARMFUL: DANGER OF SERIOUS DAMAGE TO HEALTH BY PROLONGED EXPOSURE THROUGH INHALATION
Repr. Cat. 3	Reproductive toxicity, development, category 3
R63	POSSIBLE RISK OF HARM TO THE UNBORN CHILD
R65	HARMFUL: MAY CAUSE LUNG DAMAGE IF SWALLOWED
R67	VAPOURS MAY CAUSE DROWSINESS AND DIZZINESS

DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other **materials or in any other process**. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. **It is the user's responsibility to satisfy themselves** as to the suitability of such information for their particular use.

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