

MATERIAL: TECHSIL[®] OB1 O'RING BONDER

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

- 1.1 Product Name:** TECHSIL[®] OB1 O'ring Bonder
1.2 Product Use: Coating of electronic parts
1.3 Supplier: Techsil Ltd
34 Bidavon Industrial Estate
Waterloo Road
Bidford on Avon
Warwickshire
B50 4JN
Tel: +44(0)1789 773232
Fax: +44(0)1789 774239
Email: sales@techsil.co.uk
- 1.4 Emergency Telephone:** +44(0)7971 228794

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture:

Not Classified

2.2 Label Elements:

Signal word: No Signal Word
Hazard statements: No known significant effects or critical hazards.

Precautionary statements

Prevention: Not applicable
Response: Not applicable
Storage: Not applicable
Disposal: Not applicable
Supplemental label elements: Safety data sheet available upon request

2.3 Other Hazards:

Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII: Not applicable

Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII: Not applicable

Other hazards which do not result in classification: Not applicable

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances:

CYCLOTETRAILOXANE PROPANOIC ACID

CAS	EC	INDEX	% by weight	Classification 67/548/EEC	Classification 1272/2008 (CLP)	Type
113684-56-3	-	-	0-<25	R53	Aquatic Chronic 4, H413	(1)

Type

- [1] Substance classified with a health or environmental hazard
[2] Substance with a workplace exposure limit
[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

Contact Details

Techsil Ltd
Unit 34, Bidavon Industrial Estate, Waterloo Road, Bidford on Avon, Warwickshire, B50 4JN
Tel: +44(0)1789 773232 Fax: +44(0)1789 774239 Email: sales@techsil.co.uk Web: www.techsil.co.uk
QF21 Rev 2 (June 2016)

See Section 16 for the full text of the R phrases or H statements declared above.
There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: FIRST AID MEASURES

4.1 Description of First Aid Measures:

Eye Contact:	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin Contact:	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion:	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Protection of first aid personnel:	No action shall be taken involving any personal risk or without suitable training.

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

Potential acute health effects

Eye Contact:	No known significant effects or critical hazards.
Inhalation:	No known significant effects or critical hazards.
Skin Contact:	No known significant effects or critical hazards.
Ingestion:	No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye Contact:	No specific data
Inhalation:	No specific data
Skin Contact:	No specific data
Ingestion:	No specific data

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

Notes to physician:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments:	No specific treatment.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing Media:

Suitable extinguishing media:	Use dry chemical, CO ₂ , alcohol-resistant foam or water spray (fog).
Unsuitable extinguishing media:	Water jet

Special Hazards Arising from the Substance or Mixture:

5.2

Hazards from the substance or mixture:	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products:	Decomposition products may include the following materials: carbon dioxide carbon monoxide sulfur oxides halogenated compounds Measurements at temperatures above 150°C in presence of air (oxygen) have shown that small amounts of formaldehyde are formed due to oxidative degradation.

Contact Details

5.3 Advice for Fire-fighters:

Special protective actions for fire-fighters:

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Use water spray to keep fire-exposed containers cool. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Special protective equipment for fire-fighters:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

Additional information:

Not Available

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

For non-emergency personnel:

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

For emergency responders:

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental Precautions:

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and Material for Containment and Cleaning-Up:

Small spill: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Note: see section 1 of SDS for emergency contact information and section 13 of SDS for waste disposal.

Large spill: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Note: see section 1 of SDS for emergency contact information and section 13 of SDS for waste disposal.

6.4 Reference to Other Sections:

See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for Safe Handling:

Protective measures: Put on appropriate personal protective equipment (see section 8 of SDS).

Advice on general occupational hygiene:

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.

Contact Details

Techsil Ltd

Unit 34, Bidavon Industrial Estate, Waterloo Road, Bidford on Avon, Warwickshire, B50 4JN

Tel: +44(0)1789 773232 Fax: +44(0)1789 774239 Email: sales@techsil.co.uk Web: www.techsil.co.uk

QF21 Rev 2 (June 2016)

7.2 Conditions for Safe Storage, Including and Incompatibilities:

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10 of SDS) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

7.3 Specific End Use(s):

Not available

SECTION 8: HANDLING AND STORAGE

8.1 Control Parameters:

Occupational exposure limits

No exposure limit value known.

Recommended monitoring procedures:

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

DNEL/DMEL Summary:

Not available

PNEC Summary:

Not available

8.2 Exposure Controls:

Appropriate engineering controls:

No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits. Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Hygiene measures:

Eye/face protection:

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts

Hand protection:

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Body protection:

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection:

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection:

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Environmental exposure controls:

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Contact Details

Techsil Ltd

Unit 34, Bidavon Industrial Estate, Waterloo Road, Bidford on Avon, Warwickshire, B50 4JN

Tel: +44(0)1789 773232 Fax: +44(0)1789 774239 Email: sales@techsil.co.uk Web: www.techsil.co.uk

QF21 Rev 2 (June 2016)

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties:

Appearance:	Liquid
Colour:	Colourless
Odour:	Faint Odour
Odour threshold:	Not Available
pH.:	Not Available
Melting point/freezing point:	Not Applicable
Initial boiling point:	Not Applicable
Boiling range:	Not Applicable
Flash point:	300°C
Evaporation rate:	Not Available
Flammability of solids and gases	
Lower inflammability limit:	Not Applicable
Upper inflammability limit:	Not Applicable
Lower explosive limit:	Not Available
Upper explosive limit:	Not Available
Vapour pressure:	Not Available
Vapour density:	Not Available
Relative density:	Not Available
Solubility(ies)	Insoluble
Solubility in water:	Insoluble
Partition coefficient : n-octanol/water	Not Available
Auto-ignition temperature:	
Decomposition temperature:	450°C
Viscosity	
	Dynamic: Not Available
	Kinenatic: Not Available
Explosive properties:	Not Available
Oxidising properties:	Not Available

9.2 Other Information:

No additional information

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

Stable under normal conditions.

10.2 Chemical Stability:

The product is stable.

10.3 Possibility of Hazardous Reactions:

Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to Avoid:

No specific data.

10.5 Incompatible Materials:

Evolves hydrogen on contact with acids, alkalis, alcohols, powdered metals or, as the case may be, metal oxides

10.6 Hazardous Decomposition Products:

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Contact Details

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects:

Acute toxicity

Conclusion/Summary Not available

Acute toxicity estimates Not available

Irritation/Corrosion

Conclusion/Summary

Skin: Not available

Eyes: Not available

Respiratory: Not available

Sensitization

Conclusion/Summary

Skin: Not available

Respiratory: Not available

Mutagenicity

Conclusion/Summary Not available

Carcinogenicity

Conclusion/Summary Not available

Reproductive toxicity

Conclusion/Summary Not available

Teratogenicity

Conclusion/Summary Not available

Specific target organ toxicity (single exposure)

Not available

Specific target organ toxicity (repeated exposure)

Not available

Aspiration hazard

Not available

Information on the likely routes of exposure

Not available

Potential acute health effects

Eye contact: No known significant effects or critical hazards.

Inhalation: No known significant effects or critical hazards.

Skin contact: No known significant effects or critical hazards.

Ingestion: No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact: No specific data.

Inhalation: No specific data.

Skin contact: No specific data.

Ingestion: No specific data.

Contact Details

Techsil Ltd

Unit 34, Bidavon Industrial Estate, Waterloo Road, Bidford on Avon, Warwickshire, B50 4JN

Tel: +44(0)1789 773232 Fax: +44(0)1789 774239 Email: sales@techsil.co.uk Web: www.techsil.co.uk

QF21 Rev 2 (June 2016)

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects: Not available
Potential delayed effects: Not available

Long term exposure

Potential immediate effects: Not available
Potential delayed effects: Not available

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity:

Not available

12.2 Persistence and Degradability:

Not available

12.3 Bioaccumulative Potential:

Not available

12.4 Mobility in Soil:

Not available

12.5 Results of PBT and vPvB Assessment:

Not available

12.6 Other Adverse Effects:

No known significant effects or critical hazards.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods:

Methods of disposal: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction

Hazardous waste: Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.

Packaging

Methods of disposal: The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Hazardous waste: This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

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

Contact Details

14.5 Environmental Hazards:

N/A

14.6 Special Precautions for User:

Keep away from food, drink and animal feeding stuffs. This product is not regulated as dangerous goods according to the national and international regulations on the transport of dangerous goods.

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

N/A

SECTION 15: REGULATORY INFORMATION

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorization Substances of very high concern

Carcinogen:	Not listed
Mutagen:	Not listed
Toxic to reproduction:	Not listed
PBT:	Not listed
vPvB:	Not listed

Other EU regulations

REACH Status

The substance(s) in this product has (have) been Pre-Registered and/or Registered, or are exempted from registration, according to Regulation (EC) No. 1907/2006 (REACH).

Aerosol dispensers

Not applicable.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Not applicable.

EU - Prior Informed Consent. List of chemicals subject to the international PIC procedure (Annex I - Part 1)

Not listed

EU - Prior Informed Consent. List of chemicals subject to the international PIC procedure (Annex I - Part 2)

Not listed

EU - Prior Informed Consent. List of chemicals subject to the international PIC procedure (Annex I - Part 3)

Not listed

Seveso II Directive

This product is not controlled under the Seveso II Directive.

National regulations

International regulations

International lists : Taiwan inventory (CSNN) All components are listed or exempted. Australia inventory (AICS) Not determined. Canada inventory Not determined. China inventory (IECSC) All components are listed or exempted. Korea inventory All components are listed or exempted. New Zealand Inventory (NZIoC) All components are listed or exempted. Philippines inventory (PICCS) All components are listed or exempted. United States inventory (TSCA 8b) Not determined. Japan inventory All components are listed or exempted.

Chemical Weapons Convention

Not listed

List Schedule I Chemicals

Chemical Weapons Convention

Not listed

List Schedule II Chemicals

Chemical Weapons Convention

Not listed

Contact Details

Techsil Ltd

Unit 34, Bidavon Industrial Estate, Waterloo Road, Bidford on Avon, Warwickshire, B50 4JN

Tel: +44(0)1789 773232 Fax: +44(0)1789 774239 Email: sales@techsil.co.uk Web: www.techsil.co.uk

QF21 Rev 2 (June 2016)

List Schedule III Chemicals

15.2 Chemical Safety Assessment:

This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: OTHER INFORMATION

Abbreviations and acronyms

ATE = Acute Toxicity Estimate
CLP = Classification, Labeling and Packaging Regulation
[Regulation (EC) No. 1272/2008]
DNEL = Derived No Effect Level
DMEL = Derived Minimal Effect Level
EUH statement = CLP-specific Hazard statement
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number
PBT = Persistent, Bioaccumulative and Toxic
vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 (CLP/GHS)

Classification	Justification
Not classified.	

Full text of abbreviated H statements	H413:	May cause long lasting harmful effects to aquatic life
Full text of classifications (CLP/GHS)	Aquatic Chronic 4, H413:	AQUATIC HAZARD (LONG-TERM) – Category 4
Full text of abbreviated R phrases	R53-	May cause long-term adverse effects in the aquatic environment.
Full text of classifications	Not applicable.	

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.

Contact Details

Techsil Ltd
Unit 34, Bidavon Industrial Estate, Waterloo Road, Bidford on Avon, Warwickshire, B50 4JN
Tel: +44(0)1789 773232 Fax: +44(0)1789 774239 Email: sales@techsil.co.uk Web: www.techsil.co.uk
QF21 Rev 2 (June 2016)