

MATERIAL: TECHSIL[®] RTV10533

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

1.1	Product Name:	Techsil RTV10533
1.2	Product Use:	Silicone Elastomer
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:

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Skin Corr./Irrit. 2 H315

Classification according to Directive 1999/45/EC [DPD]

Classification: Xi, R38

Physical/chemical hazards: Not applicable.

Human health hazards: Irritating to skin.

Environmental hazards: Not applicable.

See Section 16 for the full text of the R phrases or H statements declared above.

2.2 Label Elements:

Hazard pictograms:

Signal word: Warning

Hazard statements: Causes skin irritation.

Precautionary statements

Prevention: Wear protective gloves.

Response: **IF ON SKIN:**
Wash with plenty of soap and water.

If skin irritation occurs:

Get medical attention.

Storage: Not applicable.

Disposal: Not applicable.

Hazardous ingredients: Triacetoxymethylsilane

Supplemental label elements: Not applicable.

2.3 Other Hazards:

Substance meets the criteria for: Not applicable

PBT according to Regulation

(EC) No. 1907/2006, Annex XIII

Substance meets the criteria for: Not applicable

vPvB according to Regulation

(EC) No. 1907/2006, Annex XIII

Other hazards which do not:

result in classification

Uncured product is irritating to eyes, skin and respiratory system. Generates acetic acid during cure.

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances:

Product/Ingredient Name	Identifiers	% by weight	Classification		Type
			67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	
Triacetoxethylsilane	RRN : 241-677-4 EC: 241-677-4 CAS : 17689-77-9 Index:	>=1 - <3	C; R34 Xn; R22 R14	Acute Tox. 4, H302 Skin Corr./Irrit. 1B, H314	[1]
Methylsilanetriyl triacetate	RRN : 224-221-9 EC: CAS : 4253-34-3 Index	>=1 - <3	R14 C; R34 Xn; R22	Acute Tox. 4, H302 Skin Corr./Irrit. 1C, H314	[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

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.

3.2 Mixtures:

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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. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact:	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

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Ingestion:	Wash out mouth with water. Remove dentures if any. 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. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Protection of first aid personnel:	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

**4.2 Most Important Symptoms and Effects, both Acute and Delayed:
Potential acute health effects**

Eye contact:	Causes serious eye irritation.
Inhalation:	No known significant effects or critical hazards.
Skin contact:	Causes skin irritation.
Ingestion:	Irritating to mouth, throat and stomach.

Over-exposure signs/symptoms

Eye contact:	Adverse symptoms may include the following: pain or irritation watering redness
Inhalation:	No specific data.
Skin contact:	Adverse symptoms may include the following: irritation redness
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, CO₂, alcohol-resistant foam or water spray (fog).

Unsuitable extinguishing media

Water jet

5.2 Special Hazards Arising from the Substance or Mixture:

Hazards from the substance or mixture: No specific fire or explosion hazard.

Hazardous thermal

decomposition products:

Decomposition products may include the following materials:

Carbon dioxide

Carbon monoxide

Metal oxide/oxides

Measurements at temperatures above 150°C in presence of air (oxygen) have shown that small amounts of formaldehyde are formed due to oxidative degradation.

5.3 Advice for Firefighters:

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.

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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. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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:

Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. 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.

Large spill:

Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labelled waste container. 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). Do not ingest. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous.

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.

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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 unlabelled containers. Use appropriate containment to avoid environmental contamination.

7.3 Specific End Use(s):

Recommendations:	Not available
Industrial sector specific solutions:	Not available

SECTION 8: HANDLING AND STORAGE

8.1 Control Parameters:

Occupational 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:
PNEC Summary:

Not available
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.

Individual protection measures

Hygiene measures:

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.

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. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin protection

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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

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:

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.

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Respiratory protection:	Use a properly fitted, particulate filter 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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties:

Appearance

Physical state:	Paste
Colour:	Colourless
Odour:	Acetic Acid
Odour Threshold:	Not available
pH:	Not available
Melting point/freezing point:	Not available
Initial boiling point and boiling range:	Not available
Flash point:	93°C (Estimated)
Evaporation rate:	Not available
Flammability (solid, gas):	Not available
Burning time:	Not available
Burning rate:	Not available
Upper/lower flammability or explosive limits:	Lower: Not applicable Upper: Not applicable
Vapour pressure:	Not available
Vapour density:	Not available
Relative density:	Not available
Density:	1,099 g/cm ³ @20°C
Solubility(ies):	Insoluble
Solubility in water:	Not available
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity:	Dynamic: Not available Kinematic: Not available
Explosive properties:	Not available
Oxidizing 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:

No specific data.

Contact Details

10.6 Hazardous Decomposition Products:

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

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects:

Acute toxicity

Conclusion summary: Not available

Acute toxicity estimates

Route	ATE value
Oral	12.510mg/kg

Irritation / corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Techsil RTV10533	Skin - Moderate irritant OECD-Guideline 404 (Acute Dermal Irritation/Corrosion)	Rabbit			-
Remarks:	Classification according to test study data of a similar product.				
	eyes - Mild irritant OECD-Guideline 405 (Acute Eye Irritation/Corrosion)	Rabbit			-
Remarks:	Classification according to test study data of a similar product.				

Conclusion / summary

Skin: Moderate irritant
Eyes: Mild irritant
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: Causes serious eye irritation
Inhalation: No known significant effects or critical hazards
Skin contact: Causes skin irritation
Ingestion: Irritating to mouth, throat and stomach

Contact Details

Symptoms related to the physical, chemical and toxicological characteristics.

Eye contact:	Adverse symptoms may include the following: Pain or irritation Watering Redness
Inhalation:	No specific data
Skin contact:	Adverse symptoms may include the following: Irritation Redness
Ingestion:	No specific data.

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

Potential chronic health effects

Conclusion/Summary:	Not available
General:	No known significant effects or critical hazards
Carcinogenicity:	No known significant effects or critical hazards
Mutagenicity:	No known significant effects or critical hazards
Teratogenicity:	No known significant effects or critical hazards
Development effects:	No known significant effects or critical hazards
Fertility effects:	No known significant effects or critical hazards

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity:

Conclusion / Summary:	Not available
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12.2 Persistence and Degradability:

Conclusion / Summary:	Not available
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12.3 Bioaccumulative Potential:

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12.4 Mobility in Soil:

Soil/water partition coefficient: (KOC)	Not available
Mobility:	Not available

12.5 Results of PBT and vPvB Assessment:

PBT:	P: Not available B: Not available T: Not available
vPvB:	vP: Not available vB: Not available

12.6 Other Adverse Effects:

No known significant effects or critical hazards

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods:

Product

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.
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Contact Details

Hazardous waste:	The classification of the product may meet the criteria for a hazardous waste.
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.
Special precautions:	This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have Not been cleaned or rinsed out. 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:**
Not Applicable
- 14.2 UN Proper Shipping Name:**
Not Applicable
- 14.3 Transport Hazard Class(es):**
Not Applicable
- 14.4 Packing Group:**
Not Applicable
- 14.5 Environmental Hazards:**
Not Applicable
- 14.6 Special Precautions for User:**
This product is not regarded as dangerous goods according to the national and international regulations on the transport of dangerous goods.
Protect from moisture. Keep away from food, foodstuff, acids and bases. Keep away from odour sensitive materials
- 14.7 Transport in Bulk According to Annex II of MARPOL73/78 and the IBC Code:**
Not Applicable

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:
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

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EU-Prior Informed Consent: Not listed

List of chemicals subject to the international PIC procedure (Annex I - Part 2)

EU-Prior Informed Consent: Not listed

List of chemicals subject to the international PIC procedure (Annex I - Part 3)

Seveso II Directive

This product is not controlled under the Seveso II Directive.

National regulations

International regulations

International lists:

Australia inventory (AICS) All components are listed or exempted.
Canada inventory At least one component is not listed in DSL but all such components are listed in NDSL.
Japan inventory All components are listed or exempted.
China inventory (IECSC) All components are listed or exempted.
Korea inventory All components are listed or exempted.
New Zealand Inventory (NZIoC) Not determined.
Philippines inventory (PICCS) All components are listed or exempted.
United States inventory (TSCA 8b) All components are listed or exempted.
Taiwan inventory (CSNN) 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.

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, Labelling 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
Skin Corr./Irrit. 2, H315	On basis of test data

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**Full text of abbreviated H
Statements:**

H302 (oral)	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H314	Causes skin irritation
H315	Causes skin irritation

**Full text of classifications
[CLP/GHS]:**

Acute Tox. 4, H302	ACUTE TOXICITY (oral) - Category 4
Skin Corr./Irrit. 1B, H314	SKIN CORROSION/IRRITATION - Category 1B
Skin Corr./Irrit. 1C, H314	SKIN CORROSION/IRRITATION - Category 1C
Skin Corr./Irrit. 2, H315	SKIN CORROSION/IRRITATION - Category 2

Full text of abbreviated R phrases: R14- Reacts violently with water.
R22- Harmful if swallowed.
R34- Causes burns.
R38- Irritating to skin.

**Full text of classifications
[DSD/DPD]:** C - Corrosive
Xn – Harmful
Xi – Irritant

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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