

1 Identification of the preparation and the supplying Company

- 1.1 Sakarat Rodent Barrier (metal Detectable)
- 1.2 Rodent proof sealant in a 310ml capacity caulking tube.
- 1.3 Killgerm Chemicals Ltd, Wakefield Road, Ossett, West Yorkshire, WF5 9AJ.
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Killgerm Chemicals Ltd, 01924 268452 (Office hours)

2 Hazards identification

2.1. Classification of the substance or mixture

According to Regulation (EC) 1272/2008
Physical and Chemical Hazards Not classified.



Human health Skin Sens. 1 - H317 May cause an allergic skin reaction.

Environment Not classified.

According to Directive 1999/45/EC
R43.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

Human health

The product contains a sensitising substance which may provoke an allergic reaction among sensitive individuals.

Environment

Not considered as an environmental hazard under current legislation.

2.2. Label elements

Contains METHYL-0,0',0''-BUTAN-2-ONE-TRIOXIMOSILANE

Label In Accordance With (EC) No. 1272/2008

Signal Word: Warning

Precautionary Statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P272 Contaminated work clothing should not be allowed out of the workplace.

P261 Avoid breathing vapour/spray.

P321 Specific treatment (see medical advice on this label).

P302+352 IF ON SKIN: Wash with plenty of soap and water.

P333+313 If skin irritation or rash occurs: Get medical advice/attention.

P363 Wash contaminated clothing before reuse.

P501 Dispose of contents/container to ...

2.3. Other hazard

3 Composition and information on ingredients

3.2. Mixtures

Hazardous Components in Product

Ingredient Name	Classification	Concentration	R Phrases	H Phrases
METHYL-0,0',0''-BUTAN-2-ONE-TRIOXIMOSILANE CAS-No.: 22984-54-9	Skin Irrit. 2 Eye Irrit. 2 Skin Sens. 1	1 - 5%	R36/38 , R43.	H315, H319, H317
3-(2-AMINOETHYLAMINO)-PROPYLTRIMETHOXYSILANE CAS-No.: 1760-24-3	Acute Tox. 4 Eye Dam. 1 Skin Sens. 1 Aquatic Chronic 2	< 1%	R20. R41. R51/53. R43.	H332, H318, H317, H411

See section 16 for full text of R-phrases, H phrases and hazard classification of ingredients.

4 First Aid measures

4.1. Description of first aid measures

Ingestion (swallowing): Immediately rinse mouth and drink plenty of water (200-300 ml). Give milk instead of water if readily available. DO NOT induce vomiting. Get medical attention immediately.

Inhalation: Remove victim immediately from source of exposure. Move into fresh air and keep at rest. Get medical attention if any discomfort continues.

Skin contact: Wipe off excess material with cloth or paper. Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing.

Eye contact: Promptly wash eyes with plenty of water while lifting the eye lids. Make sure to remove any contact lenses from the eyes before rinsing. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

4.2. Most important symptoms and effects, both acute and delayed:

Inhalation: No specific symptoms noted.

Ingestion: May cause discomfort if swallowed.

Skin contact: Allergic rash.

Eye contact: May cause temporary eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed: Treat Symptomatically.

5 Fire-fighting measures

5.1. Extinguishing media: Water spray, fog or mist. Foam, carbon dioxide or dry powder.

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture: Hazardous combustion products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

Unusual Fire & Explosion Hazards No unusual fire or explosion hazards noted. Specific hazards In case of fire, toxic gases may be formed (COx, NOx).

5.3. Advice for fire-fighters: Special Fire Fighting Procedures :No specific fire fighting procedure given.

Protective equipment for fire-fighters: Self contained breathing apparatus and full protective clothing must be worn in case of fire.

6 Accidental release measures

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

6.2. Environmental precautions: Do not discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up: Collect in containers and seal securely. Clean any slippery coating that remains using a detergent / soap solution or other biodegradable cleaner.

6.4. Reference to other sections: For personal protection, see section 8. See section 11 for additional information on health hazards. For waste disposal, see section 13.

7 Handling and storage

7.1. Precautions for safe handling: Avoid spilling, skin and eye contact. Persons susceptible to allergic reactions should not handle this product. Observe good chemical hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities: Store in tightly closed original container in a dry, cool and well-ventilated place.

7.3. Specific end use(s): The identified uses for this product are detailed in Section 1.2. Usage Description
Gunnable sealant.

8 Exposure controls and personal protection

8.1 Control parameters

Ingredient Comments: No exposure limits noted for ingredient(s).

8.2 Exposure controls

Engineering measures:

Provide adequate general and local exhaust ventilation.

Respiratory equipment:

If ventilation is insufficient, suitable respiratory protection must be provided. Use of ABEK mask filter during prolonged exposure advised.

Hand protection:

Use protective gloves. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

Eye protection:

Wear approved chemical safety goggles where eye exposure is reasonably probable.

Hygiene measures:

DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap & water if skin becomes contaminated.

Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

9 Physical and chemical properties

9.1. General information

Appearance: Thixotropic paste.

Colour: Translucent with stainless steel fibres.

Odour: Noticeable.

Solubility: Insoluble in water

Initial boiling point and boiling range: (°C)Not applicable.

Melting point (°C): Not applicable.

Relative density: 1.1 @ 20°C

Vapour density (air=1): Not applicable.

Vapour pressure: Not applicable.

Evaporation rate: Not applicable.

Evaporation Factor: Not applicable.

pH-Value, Conc. Solution: Not applicable.

pH-Value, Diluted Solution: Not applicable.

Viscosity: 8000 - 10000 Ps @ 20°C

Solubility Value: (G/100G H₂O@20°C) Not applicable.

Decomposition temperature (°C): Not determined.
Odour Threshold, Lower: Not determined.
Odour Threshold, Upper: Not determined.
Flash point (°C): Not applicable.
Auto Ignition Temperature (°C): 430
Flammability Limit - Lower(%): Not applicable.
Flammability Limit - Upper(%): Not applicable.
Partition Coefficient (N-Octanol/Water): Not applicable.
Explosive properties: Not applicable.
Oxidising properties: Not applicable.

10 Stability and reactivity

10.1. Reactivity: No specific reactivity hazards associated with this product.

10.2. Chemical stability: Stable under normal temperature conditions and recommended use. Moisture curing process releases: a small amount of butanone-2-oxime (MEKO)

10.3. Possibility of hazardous reactions: Not known.

Hazardous Polymerisation: Will not polymerise.

10.4. Conditions to avoid: Avoid excessive heat for prolonged periods of time. Avoid contact with: Moisture

10.5. Incompatible materials: Materials To Avoid Strong oxidising substances.

10.6. Hazardous decomposition products: In case of fire, toxic gases (CO, CO₂, NO_x) may be formed.

Temperatures of ~ 150 C may generate: A small amount of formaldehyde, through oxidation.

11 Toxicological information

11.1 Information on toxicological effects

Toxic Dose 1 - LD 50

Methyl-0-0'-0''-butan-2-one-trioximosilane >1000 mg/kg (oral rat)

Toxic Conc. - LC 50

Methyl-0-0'-0''-butan-2-one-trioximosilane >50 mg/l/4h (inh-rat)

Toxicological information

Butanone-2-oxime (MEKO) is damaging to nasal membranes in rats and mice at a concentration in excess of 10ppm over a prolonged period of time.

Acute toxicity:

Based on available data the classification criteria are not met.

Skin Corrosion/Irritation:

Based on available data the classification criteria are not met.

Respiratory or skin sensitisation:

The product contains a small amount of a sensitising substance which may cause an allergic reaction in sensitive individuals.

Germ cell mutagenicity:

Based on available data the classification criteria are not met.

Carcinogenicity:

Based on available data the classification criteria are not met.

Reproductive Toxicity:

Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure:

Not classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure:

Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard:

Not relevant, due to the form of the product.

Inhalation

No specific health warnings noted.

Ingestion

May cause discomfort if swallowed.

Skin contact

May cause sensitisation by skin contact.

Eye contact

May cause irritation to eyes.

Health Warnings

Moisture curing process releases a small amount of butanone-2-oxime (MEKO) which can irritate skin and mucous membranes. Prolonged exposure to large quantities of MEKO may cause irreversible damage to health.

Route of entry

Skin and/or eye contact.

Medical Symptoms

Allergic rash.

Medical Considerations

Skin disorders and allergies.

11.2 Other data: see section 2.3

12 Ecological information

12.1. Toxicity: There are no data for the product.

Acute Toxicity - Fish

LC50 96 hours MEKO 48 mg/l *Lepomis macrochirus* (Bluegill)

Acute Toxicity - Aquatic Invertebrates

EC50 48 hours MEKO 750 mg/l *Daphnia magna*

12.2. Persistence and degradability: The product is not expected to be biodegradable

12.3. Bioaccumulative potential: Bioaccumulation is unlikely to be significant because of the low water solubility of this product. Partition coefficient Not applicable.

12.4. Mobility in soil: The product is insoluble in water.

12.5. Results of PBT and vPvB assessment: This product does not contain any PBT or vPvB substances.

12.6. Other adverse effects: None known.

13 Disposal considerations

13.1. Waste treatment methods: Confirm disposal procedures with environmental engineer and local regulations.

Waste Class

Recommended EWC Code 08 04 09*

H13 - Sensitising

14 Transport information

14.1. UN number: No information required.

14.2. UN proper shipping name: No information required.

14.3. Transport hazard class(es) : No information required.

14.4. Packing group: No information required.

14.5. Environmental hazards: No information required.

14.6. Special precautions for user: No information required.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: No information required.

15 Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture:

Classification & Labelling according to Regulation (EC) No 1272/2008

Control of Substances Hazardous to Health Regulations 2002 (as amended).

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended)

15.2. Chemical safety assessment: Advice on product handling can be found in sections 7 and 8.

16 Other information

This data sheet does not constitute a COSHH assessment.

The information contained within this data sheet is strictly for general guidance only and should not be relied upon over and above this. This data sheet is intended to provide general health and safety guidance on the handling, storage and transportation of the preparation. The information provided in this data sheet is accurate at the date of publication and will be updated as and when appropriate. No liability will be accepted by Killgerm Chemicals Limited for any loss, injury or damage arising from any failure to comply with the information and advice contained within this data sheet and/or failure to comply with the manufacturer's guidelines, product label data and any associated technical usage literature.

Risk Phrases In Full

R20 Harmful by inhalation.

R36/38 Irritating to eyes and skin.

R43 May cause sensitisation by skin contact.

R41 Risk of serious damage to eyes.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Hazard Statements In Full

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H315 Causes skin irritation.

H332 Harmful if inhaled.

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.