

MATERIAL SAFETY DATA SHEET (Update on 2/7/2020)

1- PRODUCT INFORMATION

Name: TYVARIAN BOND SILICONE SEALANT

Supplier: Tyvarian International

Tel: 801-785-0353

Address: 195 South Geneva Road, Lindon, Utah 84042

2- COMPOSITION

Silicone Sealant CAS CODE: 112926-00-8

Ingredient	CAS Number	Weight %	ACGIH TLV	PEL
Polydimethylsiloxanediol	70131-67-8	40% - 80%		
Dimethylpolysiloxane	63148-62-9	10% - 20%		
Amorphous fumed silica	112945-52-5	5% - 10%	10 mg/m ³	6 mg/m ³
Methyl Oximino Silane	22984-54-9	1% - 5%		
Gamma-aminopropyl Triethoxysilane	919-30-2	2%- Max		

3. HAZARD IDENTIFICATION

Eye Contact

Direct eye contact irritates slightly with redness and swelling.

Skin Contact

A single short-term exposure (less than 24 hours) may irritate. Repeated prolonged contact (24 to 48 hours) may irritate moderately. Product contains oximes that are possible skin sensitizers.

Inhalation

Vapor overexposure may cause drowsiness, injure blood, liver and may irritate eyes, nose, and throat.

Ingestion

Small amounts transferred to the mouth by fingers during use, etc., should not injure.

Swallowing large amounts may injure slightly.

Existing Conditions Aggravated by Exposure

No known applicable information.

Comment

Methyl ethyl ketoxime (MEKO) is formed upon contact with water or humid air. Male rodents exposed to MEKO vapor throughout their lifetime developed liver tumors. Since many commonly used chemicals cause liver tumors in rats and mice, additional testing is planned by the MEKO supplier to determine any relevance to humans. Until more data is known, exposure levels should be maintained as low as possible.

The above listed potential effects are based on actual data, results of studies performed upon similar compositions, component data and/or expert review of the product. Please refer to Section 11 for detailed toxicology information.

4. FIRST AID INFORMATION

Eye Contact

Immediately flush with water for 15 minutes.

Skin Contact

Remove from skin and immediately flush with water for 15 minutes. Get medical attention if irritation or ill effects develop or persist.

Inhalation

Remove to fresh air. If symptoms persist, obtain appropriate medical attention.

Ingestion

Get medical attention.

Comments

Treat according to person's condition and specifics of exposure.

5. FIRE FIGHTING MEASURES

Flash Point Not determined

Auto-ignition Temperature Not determined

Lower Explosive Limit (%) Not applicable

Upper Explosive Limit (%) Not applicable

Extinguishing Media

Carbon Dioxide, Dry Chemical, Foam, Water, Water Fog or Spray

Special Fire Fighting Procedures

Self-contained breathing apparatus and protective clothing should be worn when fighting large fires involving chemicals. Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool.

Unusual Fire or Explosion Hazards

None

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken in case of spill or release

Determine whether to evacuate or isolate the area according to your local emergency plan.

Observe all personal protection equipment recommendations described in Sections 5 and 8.

For large spills, provide diking or other appropriate containment to keep material from spreading.

If diked material can be pumped, store recovered material in appropriate container. For small spills, wipe up or scrape up and contain for salvage or disposal. Clean area as appropriate since spilled material, even in small quantities, may present a slip hazard. Final cleaning may require the use of steam, solvents or detergents. Dispose of saturated absorbent or cleaning materials appropriately, since spontaneous heating may occur.

Local, state and federal laws and regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which federal, state and local laws and regulations are applicable.

Sections 13 and 15 of this MSDS provide information regarding certain federal and state requirements.

7. HANDLING AND STORAGE

Handling

Avoid eye contact. Avoid skin contact. Avoid breathing vapor. Keep container closed. Do not take internally. Use reasonable care.

Storage

Keep container closed and store in a cool, well ventilated area, away from water or moisture.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Component Exposure Limits

Methyl ethyl ketoxime is formed upon contact with water or moisture in the air. Provide adequate ventilation to control exposures to within the exposure guideline of 2 ppm (TWA).

Engineering Controls

Local Ventilation: Recommended

General Ventilation: Recommended

Eye Protection

Use proper protection - safety glasses as a minimum.

Skin Protection

Wash at mealtimes and end of shift. Contaminated clothing and shoes should be removed as soon as practical and thoroughly cleaned before reuse. Chemical protective gloves are recommended.

Suitable Gloves:

Silver Shield® 4H®

Respiratory Protection

Use respiratory protection unless adequate exhaust ventilation is provided or exposure assessment demonstrates that exposures are within exposure guidelines. Industrial Hygiene Personnel can assist in judging the adequacy of existing engineering controls.

Suitable Respirator:

General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits as determined by air sampling or are unknown, appropriate respiratory protection should be worn. Follow OSHA Respirator Regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators.

Comment

Product evolves methyl ethyl ketoxime (MEKO) when exposed to water or humid air. Provide ventilation during use to control methyl ethyl ketoxime within the exposure guidelines or use respiratory protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Paste

Specific Gravity 1.40

Density lbs/Gal. 8.55

Color/Appearance Various

Odor Slight

PH Not applicable

Boiling/Cond. Point Not determined

Melting/Freezing Point Not determined

Solubility Insoluble
Evaporation Rate Not determined
VOC % 45 g/L
Percent Volatile 5 %
Viscosity 850,000 cPs
Vapor Density Not determined
Vapor Pressure Not determined

10. STABILITY AND REACTIVITY

Chemical Stability

Stable

Materials to Avoid / Incompatibility

Oxidizing material can cause a reaction.

Hazardous Polymerization

Will not occur

Conditions to Avoid

None

11. TOXICOLOGICAL INFORMATION

Special Hazard Information on Component

Methyl Oximino Silane (22984-54-9) Possible skin sensitizer

Vinyl Oximino Silane (2224-33-1) Possible skin sensitizer

Comment

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Carcinogenicity

No ingredient in this product is an IARC, NTP or OSHA listed carcinogen.

Mutagenicity

This product is not known to be a mutagen.

Teratogenicity

This product is not known to be a teratogen.

Reproductive Toxin

This product is not known to be a reproductive toxin.

12. ECOLOGICAL INFORMATION

Environmental Effects

Complete information is not yet available.

Fate and Effects in Waste Water Treatment Plants

Complete information is not yet available.

Environmental Fate and Distribution

Complete information is not yet available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method

We make no guarantee or warranty of any kind that the use or disposal of this product complies with all local, state, or federal laws. It is also the obligation of each user of the product mentioned herein to determine and comply with the requirements of all applicable statutes.

This product is not known to be regulated under RCRA regulations. Disposal of unused portions of this product and process waste containing this product should be done only after a careful evaluation and in compliance with all federal, local and state laws.

14. TRANSPORTATION INFORMATION

DOT Road Shipment Information

Not subject to DOT.

Ocean Shipment (IMDG)

Not subject to IMDG code.

Air Shipment (IATA)

Not subject to IATA regulations.

15. REGULATORY INFORMATION

The contents of this MSDS comply with the OSHA Hazard Communication Standard 29 CFR 1910.1200.

TSCA Status

All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

Extremely Hazardous Substances

None

CERCLA Hazardous Substances

None

Toxic Chemicals

None present or none present in regulated quantities.

16 OTHER

The above information is accurate to the best of our knowledge. However, since data, safety standards, and government regulations are subject to change and the conditions of handling and use or misuse are beyond our control, Tyvarian International makes no warranty, either express or implied, with respect to the completeness or continuing accuracy of the information contained herein and disclaims all liability for reliance thereon. User should satisfy himself that he has all current data relevant to his particular use.