PRODUCT: TYTAN™ CG38

Material Safety Data Sheet

1. Company and Product Identification

Product type:	**TYTAN™ COMMERCIAL GRADE NEUTRAL CURE OXIME**
Product description:	Silicone Sealant National Fire Protection Association (NFPA) Profile Health: 2 Flammability: 1 Instability/Reactivity: 0
Manufacturer:	SELENA USA, Inc. 21715 Beck Drive, Elkhart, IN 46516 USA
Phone number:	(574)-523-0400; (877)-735-3627(toll free)
Emergency phone number:	CHEMTREC +1 (800) 424-9300
Website:	www.SelenaUSA.com

2. Hazards Identification

The potential effects of overexposure listed below are based on actual data, results of studies performed upon similar compositions, component data and/or expert review of the product. For toxicology information, refer to section 11.

Potential health effects

Acute Effects:

Eye:	Direct contact may cause moderate irritation.
Skin:	May cause moderate irritation.
Inhalation:	Irritates respiratory passages very slightly. Vapor overexposure may cause drowsiness.
Oral:	Low ingestion hazard in normal use.

Prolonged/Repeated Exposure Effects:

Skin:	Overexposure may injure internally if absorbed.
Inhalation:	Overexposure by inhalation may injure the following organ(s): blood, liver.
Oral:	Repeated ingestion or swallowing large amounts may injure internally.

Signs and Symptoms of Overexposure: Not known applicable information.
Medical Conditions Aggravated by Exposure: Not known applicable information.

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3. Composition/ Information on Ingredients

CAS Number	Wt [%]	Component name
96-29-7	< 0.5	Methyl ethyl ketoxime
22984-54-9	< 3.0	Methyl tri(ethylmethylketoxime)silane
1760-24-3	< 2.0	Aminoethylaminopropyltrimethoxysilane
1317-65-3	< 40	Calcium carbonate

4. First Aid Measures

Eye: Immediately flush with water for 15 minutes. Get medical attention.
Skin: Remove from skin immediately with paper towel and flush with water or water and soap for 15 minutes. Get medical attention if irritation or other ill effects develop or persist.
Inhalation: Remove to fresh air. Get medical attention if ill effects persist.
Oral: Get medical attention.
Comments: Treat according to person's condition and specifics of exposure.

5. Fire-Fighting Measures

Fire fighting measures: Self-contained breathing apparatus and protective clothing should be worn in 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.
Respective extinguishing media: On large fires use dry chemical, foam or water spray. On small fires use carbon dioxide (CO_2), dry chemical or water spray. Water can be used to cool fire exposed containers.
Flash point: Not applicable.
Autoignition temperature: Not applicable.
Flammability limits in air: Not applicable.
Usual fire hazards: None

Hazardous decomposition products:
Thermal breakdown of this product during fire or very high heat conditions may evolve the following hazardous decomposition products: Carbon oxides and traces of incompletely burned carbon compounds. Nitrogen oxides.

6. Accidental Release Measures

Containment/ Observe all personal protection equipment recommendations described in Sections 5

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Clean up: and 8. Wipe up or scrape up and contain for salvage or disposal. Clean area as appropriate since spilled materials, even in small quantities, may present a slip hazard. Final cleaning may require 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

Caution: See section 8 for Personal Protective Equipment for Spills. For additional information call the numbers provided in section 1.

7. Handling and Storage

Handling: Use with adequate ventilation. Product evolves methyl ethyl ketoxime (MEKO) when exposed to water or humid air. Provide ventilation during use to control methyl ethyl ketoxime (MEKO) within exposure guidelines or use respiratory protection. Traces of benzene (carcinogen) may form if heated in air above 300^{o}F. Provide ventilation to control vapor exposure within inhalation guidelines when handling at elevated temperatures. Review the OSHA benzene regulation for detailed information on safe handling requirements. Avoid eye contact. Avoid skin contact. Do not take internally. Avoid breathing vapor, mist, dust or fumes. Keep container closed. Keep away from children.

Storage: Use reasonable care and store away from oxidizing materials. Keep container closed and store away from water or moisture protecting from freezing in the temperature not higher than 86^{o}F.

8. Exposure Control / Personal Protection

Component exposure limits:

Ingredients name	CAS Number	Exposure limits
Methyl tri(ethylmethylketoximo)silane	22984-54-9	See MEKO comments
Aminoethylaminopropyltrimethoxysilane	1760-24-3	See methyl alcohol comments
Calcium Carbonate	1317-65-3	See calcium carbonate comments

Methyl ethyl ketoxime is formed upon contact with water or humid air. Provide adequate ventilation to control exposures within the following exposure guidelines:
Vendor guide TWA: 3ppm; STEL: 10ppm; AIHA WEEL TWA: 10ppm.
Methyl alcohol forms on contact with water and humid air. Provide adequate ventilation to control exposures: OSHA PEL: TWA: 200ppm; ACGIH TLV-skin: TWA 200ppm; STEL 250ppm.
Calcium carbonate exposures: TLV 10 mg/m^3; PEL and NIOSH REL: 15mg/m^3, total dust, 5mg/m^3 respirable dust.

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Engineering measures:
Local ventilation: recommended.
General ventilation: recommended.

Personal protective equipment for usual handling:

Eyes:	Use proper protection – at least safety glasses.
Skin:	Wash at mealtime 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.
Hands:	Use protective gloves made from: Butyl Rubber, Neoprene Rubber, Nitrile Rubber.
Inhalation:	Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.
Suitable respirator:	Respiratory protection is not needed under ambient conditions. If vapor/mist/dust/fumes are generated when material is heated or handled, the following is advised. General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators.

Personal protective equipment for spills

Eyes:	Use full face respirator.
Skin:	Wash at mealtime and end of shift. Contaminated clothing and shoes should be removed as soon as practical and thoroughly cleaned before reuse.
Hands:	Chemical protective gloves are recommended.
Inhalation:	Respiratory protection recommended. Follow OSHA Respirator Regulations (29 CFR 1910.134) and use NIOSH/MHSA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.
Precautionary measures:	Avoid eye contact. Avoid skin contact. Avoid breathing vapor, mist, dust or fumes. Keep container closed. Do not take internally. Use reasonable care.
Comments:	Product evolves methyl ethyl ketoxime (MEKO) when exposed to water or humid air. Provide ventilation during use to control methyl ethyl ketoxime (MEKO) within exposure guidelines or use respiratory protection. Traces of benzene (carcinogen) may form if heated in air above 300^{o}F. Provide ventilation to control vapor exposure within inhalation guidelines when handling at elevated temperatures. Review the OSHA benzene regulation for detailed information on safe handling requirements.

Note: These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions

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9. Physical and Chemical Properties

Physical form:	Paste
Color:	WHITE
Odor:	Some odor
Freezing/melting point:	Not determined.
Boiling point temperature:	Not determined.
Vapor Pressure @ 25°C	0,1 kPa
Methyl ethyl ketoxime (MEKO) vapor density against the air:	3
Solubility in water:	Not soluble.
pH:	Not determined.
Volatile content:	Not determined.
Specific gravity:	1.30 g/cm^3 at 25°C
Decomposition temperature:	>392°F
Other information:	None
Note:	The above information is not intended for use in preparing products specifications.

10. Stability and Reactivity

Chemical stability:	Stable, if applied according to guidelines.
Hazardous polymerization:	Upon contact with humidity, polymerization occurs. During polymerization, methyl ethyl ketoxime (MEKO) occurs.
Conditions to avoid:	None.
Materials to avoid:	Oxidizing material can cause a reaction. Water, moisture, or humid air can cause hazardous vapors to form as described in Section 8

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11. Toxicological Information

Component toxicology information:
Contains methyl ethyl ketoxime (MEKO). Male rodents exposed to MEKO vapor throughout their lifetime developed liver cancer. 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 achievable.

Methyl Ethyl Ketoxime (MEKO) is formed upon contact with water or humid air. Male rodents exposed to MEKO vapor throughout their lifetime developed liver cancer. 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 achievable.

Special hazard information on components:

Component name	CAS no.	Wt %	
Methyl ethyl ketoxime	96-29-7	< 0.5	Possible skin sensitizer
Methyl tri(methylethylketoximo) silane	22984-54-9	< 3.0	Possible skin sensitizer
Aminoethylaminopropyltrimethoxysilane	1760-24-3	< 2.0	Possible skin sensitizer

12. Ecological Information

Environmental Fate and Distribution
Complete information is not yet available. Does not biodegrade. Do not dispose to sewage system, surface and ground waters. Product can be easily separated from water through filtration.

Environmental Effects
Complete information is not yet available.

Fate and Effects in Waste Water Treatment Plants
Complete information is not yet available.

Ecotoxicity Classification Criteria

Hazard Parameters (LC50 or EC50)	High	Medium	Low
Acute Aquatic Toxicity (mg/L)	<=1	>1 and <=100	>100
Acute Terrestrial Toxicity	<=100	>100 and <= 2000	>2000

This table is adapted from "Environmental Toxicology and Risk Assessment", ASTM STP 1179, p.34, 1993. This table can be used to classify the ecotoxicity of this product when ecotoxicity data is listed above. Please read the other information presented in the section concerning the overall ecological safety of this material.

13. Disposal Consideration

RCRA Hazard Class (40 CFR 261)
When discarding this material, as received, is it not classified as a hazardous waste. State or local

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laws may impose additional regulatory requirements regarding disposal.
Call the number provided in section 1, if additional information is required.

14. Transport Information

DOT Road Shipment Information (49 CFR 172.101)
not required

Ocean Shipment (IMDG)
not required

Air Shipment (IATA)
not required

15. Regulatory Information

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.

EPA SARA Title III Chemical Listings:
Section 302 Extremely Hazardous Substances (40 CFR 355):
None.
Section 304 CERCLA Hazardous Substances (40 CFR 302):
None.
Section 311/312 Hazard Class (40 CFR 370):
Acute: Yes
Chronic: Yes
Fire: No
Pressure: No
Reactive: No
Section 313 Toxic Chemicals (40 CFR 372):
None present or none present in regulated quantities.

Regulatory VOC: 1.8 g/l

Supplemental State Compliance Information
California
Warning: This product contains the following chemical(s) listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause cancer, birth defects or other reproductive harm.

None known.

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Massachusetts

CAS Number	Wt %	Component Name
7631-86-9	3.0 ÷ 9.0	Silica, amorphous
13463-67-7	<= 2.0	Titanium Dioxide
1317-65-3	< 40.0	Calcium carbonate

New Jersey

CAS Number	Wt %	Component Name
70131-67-8	< 60.0	Polydimethylsiloxane, hydroxyl-terminated
7631-86-9	3.0 ÷ 9.0	Silica, amorphous
22984-54-9	< 3.0	Methyl tri(methylethylketoximo)silane
13463-67-7	<= 2.0	Titanium Dioxide
1317-65-3	< 40.0	Calcium carbonate

Pennsylvania

CAS Number	Wt %	Component Name
70131-67-8	< 60.0	Polydimethylsiloxane, hydroxyl-terminated
7631-86-9	3.0 ÷ 9.0	Silica, amorphous
22984-54-9	< 3.0	Methyl tri(methylethylketoximo)silane
13463-67-7	<= 2.0	Titanium Dioxide
1317-65-3	< 40.0	Calcium carbonate

16. Other Information

All information, recommendation or advice contained in this document or given by Selena Co. SA or any of its subsidiaries, affiliates or authorized representatives, whether written or oral, is given in good faith, to the best of its knowledge and based on current procedure in effect. Each user of the product shall convince himself, through all available sources (including finished product testing in its appropriate environment) of the suitability of the product supplied for its own particular purpose. Selena Co. SA, its subsidiaries and affiliates cannot be held responsible for any loss incurred through incorrect or faulty use of the product. The Material Safety Data Sheet related excessively to the described product. In case of applying it as a component of the other product, the MSDS is no more valid.