

Safety Data Sheet according to WHMIS 2015



1 Identification

Product Name: SANSIN Chinking
Manufacturer: The Sansin Corporation
111 MacNab Ave
Strathroy, ON, Canada N7G 4J6
Tel: 1-519-245-2001
Emergency: In Canada call CANUTEC 613-996-6666
Emergency: In USA call CHEMTREC: 800-424-9300 outside USA
703-527-3887
Product Use: No Information Available

2 Hazard (s) Identification

OSHA Regulatory Status: This material is considered as hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200) Classification of the substance or mixture

Physical Hazards Not classified

Health Hazards:

Serious eye damage/eye irritation Category 2A
Skin Sensitization Category 1B
Specific target organ toxicity -repeated exposure Category 2

Environmental Hazards: Not Classified

GHS label elements:



Signal word: WARNING

Hazard Statements:

Physical Hazards: None

Health Hazards:

- Causes serious eye irritation
- May cause an allergic skin reaction
- may cause damage to organs through prolonged or repeated exposure.

Precautionary Statements:

Prevention: - Wash hands thoroughly after handling. Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing must not be allowed out of the workplace. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection.

Response: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see first aid instructions on label). Wash contaminated clothing before reuse. If exposed or concerned: Get medical advice/attention.

Storage: - Store locked up.

Disposal: - Dispose of contents/container in accordance with local, regional and federal regulations.

Hazard(s) not otherwise classified (HNOC): None Known

3 Composition/Information on Ingredients

Mixtures

Chemical Name:	CAS#:	% by Weight
Aminoethyl aminopropyl trimethoxy silane	1760-24-3	1-3
Vinyltrimethoxysilane	2768-02-7	0.5-2
Dibutyltin oxide	818-08-6	0.25-0.75

4 First Aid Measures

Description of necessary first aid measures:

Inhalation: Move to fresh air. If breathing is difficult, give oxygen. Get medical attention immediately if symptoms occur.
Skin Contact: Remove contaminated clothing. If on skin, wash off immediately with soap and plenty of water for at least 15 minutes. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention.
Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion: Rinse mouth. Never give anything by mouth to an unconscious person. Do not induce vomiting. Immediately call a POISON CENTER or doctor/physician.

Most important symptoms/effects, acute and delayed:

Potential acute health effects: No specific symptom noted.

Indication of immediate medical attention and special treatment needed: Treat symptomatically.

5 Fire-fighting Measures

Suitable extinguishing media: Use an extinguishing agent suitable for the surrounding fire.

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

Specific hazards arising from the chemical: Thermal decomposition may release irritating, corrosive and/or toxic gases vapors and fumes.

Special protective equipment for fire-fighters: Use water spray or fog for cooling exposed containers. Firefighters must wear MIOOSH/MSHA approved positive pressure self-contained breathing apparatus with full face mask and full protective clothing. See SDS Section 8 (Exposure Controls/Personal Protection).

6 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation. Evacuate unnecessary personnel. Avoid breathing vapor, mist or spray. Avoid contact with skin, eyes and clothing. Wear appropriate personal protective equipment (PPE) as detailed in Section 8.

Methods and materials for containment and cleaning up:

Sweep up or vacuum up spillage and collect in suitable container for disposal. Dispose in accordance with regulations.

7 Handling and Storage

Precautions for Safe Handling:

Use with adequate ventilation. Keep away from heat, sparks and open flame. No smoking. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Apply good hygienic practices. **Conditions for safe storage including any incompatibilities:** Keep containers tightly closed in a dry, cool and well-ventilated place.

8 Exposure Controls/Personal Protection

Occupational exposure limits

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) None of the components in this product is listed.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
Methanol (CAS NO# 67-56-1)	PEL (TWA)	200 ppm 260 mg/m3
1,2-Ethylenediamine (CAS NO# 107-15-3)	PEL (TWA)	10 ppm 25 mg/m3
Tin, organic compounds (as Sn)	PEL (TWA)	0.1 mg/m3

US. OSHA Table Z-2 (29 CFR 1910.1000)

None of the components in this product is listed.

US. OSHA Table Z-3 (29 CFR 1910.1000)

None of the components in this product is listed.

US. ACGIH Threshold Limit Values

Components	Type	Value
Methanol (CAS NO# 67-56-1)	TLV (TWA)	200 ppm (Skin BEI)
	TLV (STEL)	250 ppm (Skin BEI)
1,2-Ethylenediamine (CAS NO# 107-15-3)	TLV (TWA)	10 ppm (Skin)
Tin, organic compounds (as Sn)	TLV (TWA)	0.1 mg/m ³ (Skin)
	TLV (STEL)	0.2 mg/m ³ (Skin)

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
1,2-Ethylenediamine (CAS NO# 107-15-3)	REL (TWA)	10 ppm (25mg/m ³)
Tin, organic compounds (as Sn)	REL (TWA)	0.1 mg/m ³ (except Cyhexatin) (Skin)

Ingredients with biological limit values

Components	Biological limit values	Duration
Methanol (CAS NO# 67-56-1)	15 mg/l (Urine)	Time: end of shift

Appropriate engineering controls: Provide eyewash station and safety shower. Provide adequate ventilation to minimize dust concentrations. Avoid all unnecessary exposure. **Respiratory equipment:** Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits. **Hand Protection:** Wear chemical-resistant gloves. **Eye Protection:** Wear safety glasses with side shields (or goggles). **Other Protection:** Wear suitable protective clothing. **General hygiene considerations:** Wear suitable gloves and eye/face protection. . Keep away from food and drink. When using does not eat, drink or smoke. Wash hands before breaks and at the end of work.

9 Physical and Chemical Properties**Appearance:**

Form: No information available.

Colour: Black

Odour: No information available.**Odour threshold:** No information available.**pH:** No information available.**Melting point:** No information available.**Freezing point:** No information available.**Initial boiling point and boiling range:** No information available.**Evaporation rate:** No information available.**Flammability (solid, gas):** No information available.**Upper/lower flammability or explosive limits**

Flammability limit-lower (%): No information available.

Flammability limit-upper (%): No information available.

Explosive limit-lower (%): No information available.

Explosive limit-upper (%): No information available.

Vapour pressure: No information available.**Vapour density:** No information available.**Relative density:** No information available**Density:** 8.73 lbs/gal**Solubilities:**

Solubility (water): No information available.

Partition coefficient (noctanol/water)– No information available.**Auto-ignition temperature:** No information available.**Decomposition temperature:** No information available.**Viscosity:** No information available**10 Stability and Reactivity****Reactivity:** No specific reactivity hazards associated with this product.**Chemical stability:** Stable under recommended storage conditions.**Possibility of hazardous reactions:** Hazardous polymerization will not occur.**Conditions to avoid:** None under recommended storage and handling condition.**Incompatible Materials:** No information available**Hazardous decomposition products:** No dangerous decomposition products known.**11 Toxicological Information****Information on likely routes of exposure:****Ingestion:** No Information available.**Inhalation:** No information available.**Skin Contact:** May cause allergic skin reaction:**Eye Contact:** Causes serious eye irritation.**Symptoms related to the physical, chemical and toxicological characteristics:** No information available.**Delayed and immediate effects and also chronic effects from short and long term exposure –** No information available.**Numerical measures of toxicity**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Aminoethyl aminopropyl trimethoxy silane (CAS NO# 1760-24-3)	2,995 mg/kg (rat)	> 2,995 mg/kg (rat)	No information available
Vinyltrimethoxysilane (CAS NO# 2768-02-7)	7.34 mL/kg (rat)	3,460 - 4,000 mg/kg (rabbit)	2773 ppm, 4h, vapor
Dibutyltin oxide (CAS NO# 818-08-6)	172 mg/kg (rat)	No information available	No information available

Skin corrosion/irritation: No information available.**Serious eye damage/eye irritation:** Causes serious eye irritation.**Respiratory or skin sensitization:****Respiratory sensitization:** No information available.**Skin sensitization:** May cause an allergic skin reaction.**Germ cell mutagenicity** No information available.**Carcinogenicity:** IARC: occupational exposures to straight-run bitumens and their emissions during road paving are "possibly carcinogenic to humans" (Group 2B). Contains polycyclic aromatic compounds (PACs). Prolonged and/or repeated skin contact with certain PACs has been shown to cause skin cancer. Prolonged and/or repeated exposures by inhalation of certain PACs may also cause cancer of the lung and of other sites of the body.**Reproductive toxicity** May damage fertility or the unborn child.**Specific target organ toxicity - single exposure** No information available.**Specific target organ toxicity - repeated exposure** May causes damage to organs through prolonged or repeated exposure.**Aspiration hazard:** No information available.**12 Ecological information****Ecotoxicity - Numerical measures of toxicity**

Chemical Name	Test	Species	Test Results
Aminoethyl aminopropyl trimethoxy silane (CAS# 1760-24-3)	Fish LC50	Bluegill (<i>Lepomis macrochirus</i>)	> 100 mg/L
	Crustacean EC50	Water flea (<i>Daphnia magna</i>)	87.4 mg/L, 48h
	Algae EC50	Green microalgae (<i>Pseudokirchneriella subcapitata</i>)	8.8 mg/L, 96h
	Algae NOEC	Green microalgae (<i>Pseudokirchneriella subcapitata</i>)	3.1 mg/L
Dibutyltin oxide (CAS# 818-08-6)	Fish LC50	Generic Fish	1 mg/L, 48h
	Crustacean EC50	Water flea (<i>Daphnia magna</i>)	2 mg/L, 48h

	Algae EC50	Green algae (Desmodesmus subspicatus)	≥ 1.6 mg/L,72h
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Persistence and degradability: There are no data on the degradability of this product.

Bioaccumulative potential: There is no data on bioaccumulation.

Mobility in soil: No Data available.

Other adverse effects: Not available.

13 Disposal Considerations

Disposal instructions: Dispose of contents/container in accordance with local/regional/national/international regulations.

14 Transport information

	DOT Classification	IMDG	IATA
UN No.	Not Regulated	Not Regulated	Not Regulated
UN Proper Shipping Name	Not Dangerous Goods	- Not Dangerous Goods	- Not Dangerous Goods
Transport Hazard Class	Not Regulated	Not Regulated	Not Regulated
Packing Group	Not Regulated	Not Regulated	Not Regulated
Environmental Hazards	No	No	No
Additional Info.	-	-	-

15 Regulatory information

US federal regulations: This product is "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

Some of the components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None of the ingredients are listed.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) None of the ingredients are listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Methanol (CAS NO# 67-56-1) Listed

1,2-Ethylenediamine (CAS NO# 107-15-3) Listed

SARA Section 311/312 (40 CFR 370 Subparts B and C) reporting categories: Combustible dust, Eye irritation, Skin sensitization, Reproductive toxicity, Specific target organ toxicity- Repeated Exposure.

SARA 313 (TRI reporting)

Methanol (CAS NO# 67-56-1) Listed

Other federal regulations

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) 1,2-Ethylenediamine (CAS NO# 107-15-3) Listed
Safe Drinking Water Act (SDWA)

US State regulations.

US. New Jersey Worker and Community Right-to-Know Act

Methanol (CAS NO# 67-56-1) Listed

1,2-Ethylenediamine (CAS NO# 107-15-3) Listed

US. Pennsylvania Worker and Community Right-to-Know Law

Methanol (CAS NO# 67-56-1) Listed

1,2-Ethylenediamine (CAS NO# 107-15-3) Listed

US. California Proposition 65 S - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT):

This product contains no chemicals known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

16 Other information

SDS Prepared by: The Sansin Corporation R&D Dept.

Date Prepared [mm/dd/yy]: 09/24/2019

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