

MATERIAL SAFETY DATA SHEET

HMIS Rating	NFPA Rating	EC Classification	WHMIS (Canada)	Transportation
HEALTH 2 FLAMMABILITY 1 REACTIVITY 0				Not regulated

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name:	Zinc Salicylate		
Chemical Name:	Zinc, bis[2-(hydroxy-.K.O)benzoato-. K.O]-, (T-4)-	Chemical Family:	metal salt of carboxylic acid
Synonyms:	Salicylic acid, zinc salt	CAS Number:	16283-36-6
Product Use:	chemical intermediate		
Manufacturer Information:	Vertellus Health & Specialty Products LLC 300 North Meridian Street, Suite 1500 Indianapolis, Indiana 46204 USA	Emergency Phone Number (24 hr.):	(317) 247-8141 CHEMTREC Phone Number (24 hr.): (800) 424-9300 (collect calls accepted)
European Contact:	Vertellus Specialties UK Ltd. Seal Sands Road, Seal Sands Middlesbrough TS2 1UB United Kingdom	International CHEMTREC (24 hr.):	(703) 527-3887 (collect calls accepted; 011 prefix not needed)
		Non-Emergency Phone Number:	(570) 420-3900
		Non-Emergency Fax Number:	(570) 421-9012

SECTION 2: HAZARDS IDENTIFICATION

Emergency Overview:
 White solid needles with little to no odor. Irritating to skin and eyes.
 May present a dust explosion hazard if handled inappropriately.
(See Section 11 for detailed toxicological information.)

Signs and Symptoms of Potential Overexposure:	Overexposure to salicylates has been reported in the public literature to cause headache, dizziness, ringing in the ears, hearing difficulties, vision disturbances, skin eruptions, mental confusion, drowsiness, sweating, hyperventilation, excessive thirst, and gastrointestinal irritation. Some salicylates may be absorbed through the skin. These symptoms should not occur if the product is handled in an appropriate manner.
Primary Route(s) of Exposure:	Skin contact and absorption, eye contact, and inhalation. Ingestion is not likely to be a primary route of exposure.
Medical Conditions Aggravated by Exposure:	Persons with pre-existing skin, liver, or kidney disorders may be at increased risk from overexposure to this material. This is not likely to be a problem when appropriate procedures are used to minimize exposure.

SECTION 3: COMPOSITION AND INFORMATION ON INGREDIENTS

Ingredient	CAS Number	Concentration (%)	EINECS / ELINCS	EU Symbol	Risk Phrases
Zinc Salicylate	16283-36-6	approx. 100	240-380-7	Xi	R36/38

NOTE: See Section 8 of this MSDS for exposure limit data for these ingredients.



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See Section 16 of this MSDS for the full text of the R-phrases above.

SECTION 4: FIRST AID MEASURES

Skin Contact:	Wash exposed area twice with soap and water. The exposed area should be examined by medical personnel if irritation or pain persists after the area has been washed.
Eye Contact:	Rinse eyes immediately with large amounts of water for at least 15 minutes, occasionally lifting the eyelids. GET MEDICAL ATTENTION.
Inhalation:	Remove from exposure area to fresh air immediately. If breathing has stopped, give artificial respiration. Keep affected person warm and at rest. GET MEDICAL ATTENTION.
Ingestion:	If swallowed, contact physician or poison control center immediately. Give oxygen if respiration is shallow. GET MEDICAL ATTENTION. Do not give anything by mouth to an unconscious person.
Thermal Exposure:	Not applicable.
Delayed Effects:	None known.
Note to Physician:	No specific indications. Treatment should be based on the judgment of the physician in response to the reactions of the patient.

SECTION 5: FIRE FIGHTING MEASURES

Flash Point:	Not available	Method:	Not available	Auto-ignition Temperature:	Not available
Flammable (Explosive) Limits:		Upper:	Not available	Lower:	Not available
Flammability Classification (OSHA):	Organic solid -- may present a dust explosion hazard under some conditions.				
Hazardous Products of Combustion:	Toxic fumes and/or vapors may be released upon burning, but their composition has not yet been determined.				
Potential for Dust Explosion:	No data available -- handle in a manner that prevents generation of potentially explosive dust.				
Special Flammability Hazards:	This product is an organic solid. As such, in its finely divided form, this product has the potential to present a dust explosion hazard under certain conditions, although no dust explosion data is currently available. Handle this product in a manner that prevents dust generation and accumulation, and refer to National Fire Protection Association (NFPA) Standard 654 for further information on prevention of dust explosions.				
Appropriate Extinguishing Media:	Alcohol foam, carbon dioxide, dry chemical.				
Basic Fire Fighting Guidance:	Wear self-contained breathing apparatus and full protective clothing (i.e., Bunker gear). Skin and eye contact should be avoided. Normal fire fighting procedures may be used.				

SECTION 6: ACCIDENTAL RELEASE MEASURES

Containment Techniques and Clean-up Procedures:	Remove all ignition sources. Ventilate the area of spill or leak. Wear protective equipment during clean-up. Material can then be collected for later disposal. After collection of material, flush area with water. Dispose of the material in accordance with standard practice for disposal of potentially hazardous materials as required by applicable federal, state or local laws.
Evacuation Procedures:	Isolate the hazard area and deny entry to unnecessary and unprotected personnel.
Special Instructions:	Remove all contaminated clothing to prevent further absorption. Decontaminate affected personnel using the first aid procedures in Section 4. Leather shoes that have been saturated must be discarded. Avoid dust generation during clean-up. Ensure thorough decontamination of the release area and clean-up personnel.
Special Reporting Requirements:	Notify appropriate authorities if required by regulation; see Section 15 for additional information.



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SECTION 7: HANDLING AND STORAGE

Storage Precautions & Recommendations:	This product should be stored at ambient temperature in a dry, well-ventilated location. Keep container closed when not in use. Keep away from strong bases and oxidizers.
Precautions for Unique Hazards:	This material may present a dust explosion hazard in solid form and is sensitive to ignition by electrostatic discharge. Maintain areas below flammable vapor / explosive dust concentrations.
Practices to Minimize Risk:	Wear appropriate protective equipment when performing maintenance on contaminated equipment. Wash hands thoroughly before eating or smoking after handling this material.
Special Handling Equipment:	Not applicable.
Dangerous Incompatibility Reactions:	Strong alkalies and oxidizing agents.
Incompatibilities with Materials of Construction:	None known.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits (United States):	OSHA PEL: Particulates not otherwise regulated: 15 mg/m ³ as total dust; 5 mg/m ³ as respirable fraction as an 8-hour time-weighted average	ACGIH TLV: Not established
Exposure Limits (other):	Not established for this product; consult local requirements for limits on general particulates.	
Personal Protective Equipment:	NIOSH approved chemical cartridge respirator with dust pre-filter or supplied air as necessary; impervious clothing and boots; chemical goggles; and impervious gloves (Nitrile, neoprene, PVC coated or similar).	
Respirator Caution:	Observe OSHA regulations for respirator use (29 CFR 1910.134). Air-purifying respirators must not be used in oxygen-deficient atmospheres.	
Ventilation:	All operations should be conducted in well-ventilated conditions. Local exhaust ventilation should be provided.	
Other Engineering Controls:	All appropriate engineering controls should be used to minimize exposure potential. Use exhaust ventilation to keep airborne concentrations below exposure limits.	
Thermal Hazards:	Not applicable.	
Additive or Synergistic Effects:	None known.	

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance, State & Odor (ambient temperature):	White solid needles with little to no odor.		
Molecular Formula:	C ₁₄ H ₁₀ O ₆ Zn	Molecular Weight:	339.63
Vapor Pressure:	Not available	Evaporation Rate:	Not determined
Specific Gravity or Density:	Not available	Vapor Density (air = 1):	Not available
Boiling Point:	Not available.	Freezing / Melting Point:	Not available.
Solubility in Water:	5 g / 100 mL @ 20°C	Octanol / Water Coefficient:	Not available
pH:	Not available	Odor Threshold:	Not available
Viscosity:	Not applicable	Autoignition Temperature:	Not available
Flash Point and Method:	Not available	Flammable Limits:	Not available



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SECTION 10: STABILITY AND REACTIVITY

Chemical Stability:	Stable.
Conditions to Avoid:	Avoid static discharge and generation of dust.
Incompatibilities:	Strong alkalis and oxidizing agents.
Hazardous Decomposition Products:	Toxic fumes and/or vapors may be released upon burning, but their composition has not yet been determined.
Hazardous Polymerization:	Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Oral LD ₅₀ :	Not available.
Acute Dermal LD ₅₀ :	Not available.
Acute Inhalation LC ₅₀ :	Not available.
Skin / Eye Irritation:	Moderately irritating to skin and eyes.
Target Organs:	Prolonged or repeated overexposure may lead to liver, kidney or central nervous system effects.
Carcinogenicity:	This material is not listed by IARC, NTP or OSHA as a carcinogen. No test data is available that indicates this material is a carcinogen.
Teratogenicity/ Reproductive Effects:	No data available.
Mutagenicity:	No data available.
Additional Toxicity Information:	No toxicity data is available for this material. Classifications are estimated based on data for related substances.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:	No data available.
Environmental Fate:	No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

US EPA Waste Number:	Non-Hazardous
Classification of Waste as Manufactured: (per US regulations)	The waste may be classified as "special" or hazardous per State regulations. NOTE: Generator is responsible for proper waste characterization. State hazardous waste regulations may differ substantially from federal regulations.
Waste Disposal:	Dispose of this material in accordance with standard practice for disposal of potentially hazardous materials as required by applicable national, state or local laws. Do NOT dump into any sewers, on the ground, or into any body of water. For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used. Note that disposal regulations may also apply to empty containers and equipment rinsates.

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SECTION 14: TRANSPORT INFORMATION

DOT Proper Shipping Name: Chemicals, n.o.s., [Zinc Salicylate], Non-Hazardous

SECTION 15: REGULATORY INFORMATION

OSHA Hazards: Irritant. May present a dust explosion hazard.

WHMIS Classification: Class D, Division 2, Subdivision B: Irritant.

EU Classification: Symbol:



Risk Phrases: R36/38: Irritating to eyes and skin.

Safety Phrases: S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S37: Wear suitable gloves.

Chemical Inventory Status:	TSCA: Yes	EINECS: 240-380-7	Canada: Yes - DSL
	Japan: 3-1577X	Korea: No	Australia: No
	China: Yes	Philippines: Yes	Switzerland: G-6838

SARA 313: Zinc Compounds are listed on SARA 313 (present at 100%).

Reportable Quantities: Not applicable.

State Regulations: Not applicable.

Other Regulatory Listings: Not applicable.

SECTION 16: OTHER INFORMATION

Full text of R phrases in Section 3: R36/38: Irritating to eyes and skin.

Precautionary Statement: Please note that the information contained herein is furnished without warranty of any kind. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers.

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E-mail: msds@vertellus.com

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