

Section 1. Product and Company Identification

Product Name	Zinc undecylenate
CAS Number	557-08-4

Parchem - fine & specialty chemicals	EMERGENCY RESPONSE NUMBER
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New Rochelle, NY 10801 (914) 654-6800 😨 (914) 654-689	Toll Free US & Canada: 1 (800) 255-3924 All other Origins: 1 (813) 248-0585
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Section 2. Hazards Identification

Classification of the substance or mixture

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Hazards not otherwise classified (HNOC): Not Applicable

Other hazards: Not available

Section 3. Composition / Information on Ingredients	

Common Name	Zinc undecylenate
Formula	$C_{22}H_{38}O_4Zn$
CAS Number	557-08-4

COMPONENT	CAS NUMBER	CONCENTRATION
Zinc undecylenate	557-08-4	100%

Section 4. First Aid Measures

General Advice: National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222.

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Get medical attention if irritation develops. Consult a physician if necessary.

Eye Contact: Flush eyes with water for 15 minutes. Get medical attention if irritation occurs. If symptoms persist, call a physician.

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician if necessary.



Most important symptoms and effects, both acute and delayed

Symptoms: Health injuries are not known or expected under normal use.

Indication of any immediate medical attention and special treatment needed Notes to Physician: Treat symptomatically.

Protection of first-aiders: First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

Section 5. Firefighting Measures

Extinguishing Media

Suitable Extinguishing Media: Dry chemical. Carbon dioxide (CO2). Water spray, mist, or foam.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

Hazardous Combustion Products: Carbon Dioxide, Carbon Monoxide. Zinc oxides. Specific hazards: May be combustible at high temperatures

Special Protective Actions for Firefighters

Specific Methods: No information available.

Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid breathing dust. Avoid dispersal of dust in the air. Remove all sources of ignition.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Prevent entry into waterways, sewers.

Methods and material for containment and cleaning up

Methods for containment: Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.

Methods for cleaning up: Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.



Section 7. Handling and Storage

Precautions for safe handling

Technical Measures/Precautions: Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. Keep away from incompatible materials.

Safe Handling Advice: Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Avoid dust formation. Do not ingest. Do not breathe dust. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions: Keep container tightly closed in a dry and wellventilated place. Store at room temperature in the original container. Store away from incompatible materials.

Incompatible Materials: Strong oxidizing agents

Section 8. Exposure Controls / Personal Protection

Control parameters National occupational exposure limits United States

Components	CAS-No.	OSHA	NIOSH	ACGIH	AIHA WHEEL
Zinc	557-08-4	None	None	None	None
Undecylenate					

Canada

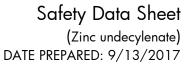
Components	CAS-No.	Canada- Alberta	Canada- British Columbia	Canada- Ontario	Canada- Quebec
Zinc	557-08-4	None	None	None	None
Undecylenate					

Australia and Mexico

Components	CAS-No.	Australia	Mexico
Zinc	557-08-4	None	None
Undecylenate			

Appropriate engineering controls

Engineering measures to reduce exposure: Ensure adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.





Individual protection measures, such as personal protective equipment Personal Protective Equipment

Eye protection: Goggles or Safety glasses with side-shields **Skin and body protection:** Gloves. Chemical resistant apron. Long sleeved clothing. **Respiratory protection:** Effective dust mask. Wear respirator with dust filter.

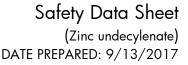
Hygiene measures: Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.

Section 9. Physical and Chemical Properties

Physical state: Solid Appearance: Powder. Color: White. Odor: Odorless. Taste: No information available. Formula: C₂₂H₃₈O₄Zn Molecular/Formula weight: 431.92 Flammability: No information available Flashpoint (°C/°F): No information available. Flash Point Tested according to: Not available Autoignition Temperature (°C/°F): No information available Lower Explosion Limit (%): No information available Upper Explosion Limit (%): No information available Melting point/range (°C/°F): 118° - 121°C (244° - 250°F) Decomposition temperature (°C/°F): No information available Boiling point/range (°C/°F): No information available Bulk density: No information available **Density (g/cm3):** No information available Specific gravity: No information available **pH:** No information available Vapor pressure @ 20°C (kPa): No information available Evaporation rate: No information available Vapor density: No information available VOC content (g/L): No information available Odor threshold (ppm): No information available Partition coefficient (n-octanol/water): No information available Viscosity: No information available Miscibility: No information available Solubility: Insoluble in water

Section 10. Stability and Reactivity

Reactivity: Reactive with oxidizing agents





Chemical Stability: Stable under recommended storage conditions. Possibility of Hazardous Reactions: Hazardous polymerization does not occur Conditions to avoid: Incompatible materials. Heat. Avoid dust formation. Incompatible Materials: Strong oxidizing agents Hazardous decomposition products: Carbon oxides.

Other Information Corrosivity: No information available Special Remarks on Corrosivity: No information available

Section 11. Toxicological Information

Information on likely routes of exposure Principal Routes of Exposure: Skin. Eyes. Inhalation. Ingestion.

Acute Toxicity Component Information Zinc Undecylenate CAS-No. 557-08-4 LD50/oral/rat: No information available LD50/oral/mouse: No information available LD50/dermal/rabbit: No information available LD50/dermal/rat: No information available LC50/inhalation/rat: No information available LC50/inhalation/mouse: No information available Other LD50 or LC50 information: No information available

Product Information LD50/oral/rat VALUE- Acute Tox Oral: No information available LD50/oral/mouse Value - Acute Tox Oral: No information available LD50/dermal/rabbit VALUE-Acute Tox Dermal: No information available LD50/dermal/rat VALUE -Acute Tox Dermal: No information available

LC50/inhalation/rat VALUE-Vapor: No information available VALUE-Gas: No information available VALUE-Dust/Mist: No information available

LC50/Inhalation/mouse

VALUE-Vapor: No information available VALUE - Gas: No information available VALUE - Dust/Mist: No information available



Symptoms

Skin Contact: May cause skin irritation.
Eye Contact: May cause eye irritation.
Inhalation: May cause irritation of respiratory tract.
Ingestion: Health injuries are not known or expected under normal use.
Aspiration hazard: No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity: No information available. Sensitization: No information available. Mutagenic Effects: No information available Carcinogenic effects: Not considered carcinogenic

Components	CAS-	IARC	ACGIH -	NTP	OSHA HCS	Australia -	Australia -
	No.		Carcinogens		-	Notifiable	Prohibited
					Carcinogens	Carcinogenic	Carcinogenic
						Substances	Substances
Zinc	557-	Not	Not listed	Not	Not listed	Not listed	Not listed
Undecylenate	08-4	listed		listed			

Reproductive toxicity: No data is available **Reproductive Effects:** No information available **Developmental Effects:** No information available **Teratogenic Effects:** No information available

Specific Target Organ Toxicity

STOT - single exposure: No information available. **STOT - repeated exposure:** No information available. **Target Organs:** No information available.

Section 12. Ecological Information

Ecotoxicity effects: No data available. Persistence and degradability: No information available Bioaccumulative potential: No information available. Mobility: No information available.

Section 13. Disposal Considerations

Waste Treatment Methods: Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.



Section 14. Transport Information

DOT

UN-No: Not Regulated Proper Shipping Name: No information available Hazard Class: No information available Subsidiary Class: No information available Packing group: No information available Emergency Response Guide Number: No information available Marine Pollutant: No data available DOT RQ (lbs): No information available Special Provisions: No Information available Symbol(s): No information available Description: No information available

TDG (Canada)

UN-No: Not Regulated Proper Shipping Name: No information available Hazard Class: No information available Subsidiary Risk: No information available Packing Group: No information available Marine Pollutant: No Information available Description: No information available

ADR

UN-No: Not Regulated Proper Shipping Name: No information available Hazard Class: No information available Packing Group: No information available Subsidiary Risk: No information available

IMO / IMDG

UN-No: Not Regulated Proper Shipping Name: No information available Hazard Class: No information available Subsidiary Risk: No information available Packing Group: No information available Marine Pollutant: No information available

RID

UN-No: Not Regulated Proper Shipping Name: No information available Hazard Class: No information available Subsidiary Risk: No information available

HII hemicals



Packing Group: No information available

ICAO

UN-No: Not Regulated Proper Shipping Name: No information available Hazard Class: No information available Subsidiary Risk: No information available Packing Group: No information available

IATA

UN-No: Not Regulated Proper Shipping Name: No information available Hazard Class: No information available Subsidiary Risk: No information available Packing Group: No information available ERG Code: No information available Special Provisions: No information available

Section 15. Regulatory Information

International Inventories

Zinc Undecylenate 557-08-4 U.S. TSCA: Present KOREA KECL: Present KE-35099 Philippines (PICCS): Present Japan ENCS: Present (9)-200, (2)-615 CHINA: Not present Australia (AICS): Present EINECS-No.: Present 209-155-0

U.S. Regulations

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986. Chemicals Known to the State of California to Cause Cancer: This product does not contain a chemical requiring a warning under California Prop. 65.

Chemicals Known to the State of California to Cause Reproductive Toxicity: This product does not contain a chemical requiring a warning under California Prop. 65. **Carcinogen:** Not Listed

Developmental Toxicity: Not Listed Male Reproductive Toxicity: Not Listed Female Reproductive Toxicity: Not Listed

CERCLA/SARA CERCLA - Hazardous Substances and their Reportable Quantities: None Section 302 Extremely Hazardous Substances and TPQs: None



Section 302 Extremely Hazardous Substances and RQs: None Section 313 - Chemical Category: None Section 313 - Reporting de minimis: None

U.S. TSCA TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS): Not Applicable TSCA 8(d) -Health and Safety Reporting: Not Applicable

WHMIS hazard class: Non-controlled

Canada Controlled Products Regulation: This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Inventory Canada (DSL): Present Canada (NDSL): Not Listed CEPA Schedule I - Toxic Substances: Not Listed CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting: Not Listed

EU Classification **R-phrase(s):** not determined (not applicable) **S -phrase(s):** none **Concentration Limits:** No information

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger: None.

Section 16. Other Information

Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

REVISION DATE: 9/13/2017