



# SAFETY DATA SHEET

## COAD<sup>®</sup> Zinc Stearate Products

### SECTION 1 - IDENTIFICATION OF THE PRODUCT AND THE COMPANY

PRODUCT NAME	COAD <sup>®</sup> 20, 20F, 21, 23, 23VG, 25, 26, 27D, 27F, 30, 31, 33, HA, Zinc Stearates	TELEPHONE	870-572-9061
MANUFACTURER	Norac, Inc.	CHEMTREC (24hr) (USA)	800-424-9300
ADDRESS	360 Phillips 311 Road, Helena, AR 72342	(Maritime/International)	703-527-3887
Recommended uses	Lubricant and/or stabilizer for plastics		

### SECTION 2 - HAZARD IDENTIFICATION

GHS Information	Not a dangerous substance or mixture according to the Globally Harmonized System (GHS).
Hazard statement USA	Not classified as a hazardous substance
Hazard Statement EU	Not classified under (EC) No 1272/2008, Directive 67/548/EEC, Directive 1999/45/EC, Chemicals Act (ChemG)
OSHA required statement	<b>WARNING</b> May form combustible dust concentrations in the air

### SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENTS	CAS NO.	%
Chemical names Zinc Stearate	557-05-1	100
Zinc distearate, fatty acids C16-C18 zinc salts		

### SECTION 4 - FIRST-AID MEASURES

Skin	Remove any contaminated clothing. Wash thoroughly with soap and water. If irritation or adverse symptoms develop seek medical attention.
Eyes	Remove any contact lenses at once. Flush eyes with running water. Ensure adequate flushing by separating the eyelids with fingers. If irritation or adverse symptoms develop seek medical attention.
Ingestion	Rinse mouth and drink plenty of water. If symptoms persist consult a doctor.
Inhalation	Remove to fresh air, if coughing, breathing becomes labored, irritation develops or other symptoms develop, seek medical attention at once, even if symptoms develop several hours after the exposure.

### SECTION 5 - FIRE-FIGHTING MEASURES

FIRE EXTINGUISHER MEDIA	Water spray, foam, carbon dioxide or dry chemical.
SPECIAL FIRE FIGHTING PROCEDURES	Burning will produce carbon dioxide, carbon monoxide and metal oxides. Firemen should be equipped with SCBA with a full face piece operated in the positive pressure demand mode with appropriate turnout gear and chemical resistant personal protective equipment.
UNUSUAL FIRE AND EXPLOSION HAZARDS	Concentrated dust may present an explosion hazard.

### SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN EVENT OF SPILL OR RELEASE	Remove all sources of ignition. Wear appropriate personal protective equipment as specified in Section 8. Spills: Clean up spills in a manner that does not disperse dust into the air. Use non-sparking tools and equipment. Reduce airborne dust and prevent scattering by moistening with soapy water. Pick up spill for recovery or disposal and place in a closed container.
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### SECTION 7 - HANDLING AND STORAGE

HANDLING	Avoid dust formation and control ignition sources. Employ grounding, venting and explosion relief provisions in accord with accepted engineering practices in any process of capable of generating dust and/or static electricity. Empty only into inert or non-flammable atmosphere. Emptying contents into a non-inert atmosphere where flammable vapors may be present could cause a flash fire or explosion due to electrostatic discharge. Do not use near food or drink. Avoid eye contact. Use with adequate ventilation. Wear personal protection equipment recommended in section 8. Reseal containers immediately after use.
STORAGE	Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Do not store with food or drink.

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<b>OTHER PRECAUTIONS</b>	Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities.
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## SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>EXPOSURE LIMITS</b>	OSHA Permissible Exposure Limit (PEL): 15 mg/m <sup>3</sup> total dust. ACGIH Threshold Limit Value (TLV): 10 mg/m <sup>3</sup> for total dust for stearates.
<b>RESPIRATORY PROTECTION</b>	Work ambient concentrations should be monitored and if airborne concentrations are expected to exceed acceptable levels wear a NIOSH/MSHA approved dust air-purifying respirator. When using respirators refer to OSHA's 29CFR 1910.134.
<b>VENTILATION</b>	Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below level of overexposure.
<b>EYE PROTECTION</b>	Safety goggles recommended. Permanent eyewash is highly recommended.
<b>HAND PROTECTION</b>	Protective gloves recommended.
<b>OTHER</b>	Emergency showers and eye wash stations should be available.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance and odor</b>	Fine white powder with slight fatty odor.		
<b>Odor threshold</b>	Not available	<b>Vapor pressure</b>	Does not apply
<b>pH</b>	Not available	<b>Vapor density</b>	Does not apply
<b>Melting point / freezing point</b>	Melt 120 to 130C by DSC	<b>Specific gravity</b>	1.0
<b>Initial boiling point</b>	Not available	<b>Solubility</b>	Insoluble in water
<b>Flash point</b>	>350°F (177°C), C.O.C.	<b>Partition coefficient n-octanol/water</b>	1.2 log POW
<b>Evaporation rate</b>	<1 (ethyl ether =1)	<b>Auto ignition temperature</b>	>700° F (371°C)
<b>Flammability</b>	Does not apply	<b>Decomposition temperature</b>	Not available
<b>Dust deflagration index</b>	Kst 252 bar-m/sec	<b>Viscosity</b>	Does not apply
<b>Minimum explosive concentration</b>	0.035 oz/ft <sup>3</sup>		
<b>Maximum explosive concentration</b>	Not available		

## SECTION 10 - STABILITY AND REACTIVITY

<b>Reactivity</b>	No further information available
<b>Chemical Stability</b>	Stable under ordinary conditions of use and storage.
<b>Incompatible materials</b>	Strong oxidants, strong bases, acids, peroxides
<b>Conditions to avoid</b>	Material as supplied is not explosive. Avoid suspending dust in the air. Ground all equipment to avoid static discharge. Suspended dust may be explosive.
<b>Hazardous decomposition products</b>	None when stored and handled as instructed. Carbon dioxide, carbon monoxide and metal oxides if burned.

## SECTION 11 - TOXICOLOGICAL INFORMATION

<b>Acute toxicity</b>	<b>Oral:</b> Rat--LD <sub>50</sub> : >10,000 mg/kg.
<b>Skin corrosion/irritation</b>	<b>Not classified as corrosive or an irritant</b>
<b>Serious eye damage/irritation</b>	<b>Not classified as corrosive or an irritant</b>
<b>Respiratory or skin sensitization</b>	<b>Not classified as respiratory or skin irritant</b>
<b>Germ cell mutagenicity</b>	<b>Not classified as a germ cell mutagen</b>
<b>This material is not listed in the National Toxicology Program Report on Carcinogens</b>	
<b>This material has not been found to be a carcinogen by the International Agency for Research on Cancer (IARC)</b>	
<b>This material has not been found by OSHA to be a carcinogen or potential carcinogen</b>	
<b>Reproductive toxicity</b>	Not classified as a reproductive toxin
<b>STOT-single exposure</b>	Not classified as a target organ toxin
<b>STOT-repeated exposure</b>	Not classified as a target organ toxin
<b>Aspiration hazard</b>	Not classified as an aspiration hazard

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## SECTION 12 - ECOLOGICAL INFORMATION

<b>Aquatic toxicity</b>	
<b>LC<sub>50</sub>/48h (static)</b>	>100 mg/l (Daphnia magna) (OECD 202)
<b>LC<sub>50</sub>/96h</b>	>10000 mg/l (Brachydanio rerio) (92/69/EEC C.1) semi-static
<b>NOEC (static)</b>	1560 mg/l (Photobacterium phosphoreum) (DIN38412) 30 min.
<b>Persistence and degradability</b>	No further information available
<b>Bioaccumulative potential</b>	Due to the distribution coefficient for n-octanol/water accumulation in organisms is not expected
<b>Potential movement from soil to groundwater</b>	No data available
<b>Other adverse effects</b>	No further information available

## SECTION 13 - DISPOSAL CONSIDERATIONS

Prevent material from entering drains, sewers, streams, etc.

Immediately dispose of waste material in accordance with federal, state and local regulations.

## SECTION 14 - TRANSPORT INFORMATION

<b>DOT (US)</b>		<b>IATA</b>		<b>IMDG</b>	
Not hazardous material.		Not dangerous goods.		Not dangerous goods.	
<b>UN/NA ID No.:</b>	N/A	<b>UN/NA ID No.:</b>	N/A	<b>UN/NA ID No.:</b>	N/A
<b>Proper Shipping Name:</b>	N/A	<b>Proper Shipping Name:</b>	N/A	<b>Proper Shipping Name:</b>	N/A
<b>Hazard Class:</b>	N/A	<b>Hazard Class:</b>	N/A	<b>Hazard Class:</b>	N/A
<b>Packing Group:</b>	N/A	<b>Packing Group:</b>	N/A	<b>Packing Group:</b>	N/A

### NMFC CLASSIFICATION

METALLIC SOAPS OF FATTY ACID

ITEM # 45230, CLASS 65

## SECTION 15 - REGULATORY INFORMATION

The following chemicals are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Percent</u>
Zinc Stearate	557-05-1	100

### **Reportable Quantity**

Not applicable.

### **Status of Carcinogenicity**

Not recognized as a carcinogen by the IARC, NTP or OSHA.

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The ingredients in this product are listed in

Australian Inventory of Chemical Substances (AICS)

Brazil (MERCOSUR)

Canadian Domestic Substances List (DSL)

Chinese Inventory of Existing Chemical Substances Manufactured or Imported in China (IECSC)

European Inventory of Existing Commercial Chemical Substances (EINECS)

Japanese Existing and New Chemical Substances (ENCS)

Korean Existing Chemicals List (ECL)

Mexico (INSQ)

New Zealand (NZloc)

Philippines Inventory of Chemicals and Chemical Substances (PICCS)

Taiwan (TCSI)

Thailand (TECI)

Turkey (KKDIK)

US Toxic Substances Control Act (TSCA)

Vietnam (Draft National Chemical Inventory March 2017)

## SECTION 16 - OTHER INFORMATION

### NFPA 704 Rating

Health  
0

Flammability  
1

Reactivity  
0

### HMIS Rating

Health  
0

Flammability  
1

Reactivity  
0

<b>Coad Zinc Stearate Products 1708.0</b>	Date of revision 11 August 2017 to update country chemical lists
<b>Prepared by Norac, Inc.</b>	Previous revision 1607.0

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