SAFETY DATA SHEET

COAD® ZINC STEARATE PRODUCTS

SECTION 1 – IDENTIFICATION OF THE PRODUCT AND THE COMPANY

PRODUCT NAME	COAD® 20, 20 VG, 21, 23, 23 VG, 25, 26, 27D, 27F, 30, 31, 33, 33 VG, HA, Zinc Stearates	**TELEPHONE**	870-572-9061
MANUFACTURER	Norac Additives, LLC	**CHEMTREC (24 HR) (USA)**	800-424-9300
ADDRESS	360 Phillips 311 Road Helena, AR 72342	**CHEMTREC (MARITIME / INTERNATIONAL)**	703-527-3887
RECOMMENDED USES	Lubrication 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	WARNING May form combustible dust concentrations in the air.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENTS	APPLICABLE CAS NO's.	%
Zinc stearate / zinc distearate	557-05-1	100
Fatty acids C16-C18 zinc salt	91051-01-3	

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-sparkling 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.

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.
OTHER PRECAUTIONS	Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS	OSHA Permissible Exposure Limit (PEL): 15 mg/m^3 total dust. ACGIH Threshold Limit Value (TLB): 10 mg/m^3 for total dust for stearates.
RESPIRATORY PROTECTION	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 29 CFR 1910.134.
VENTILATION	Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below level of overexposure.
EYE PROTECTION	Safety goggles recommended. Permanent eyewash is highly recommended.
HAND PROTECTION	Protective gloves recommended.
OTHER	Emergency showers and eye wash stations should be available.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR	Fine white powder with slight fatty odor		
ODOR THRESHOLD	Not available	**VAPOR PRESSURE**	Does not apply
pH	Not available	**VAPOR DENSITY**	Does not apply
MELTING POINT / FREEZING POINT	Melt 120°-130°C (248°-266°F) by DSC	**SPECIFIC GRAVITY**	1.0
INITIAL BOILING POINT	Not available	**SOLUBILITY**	Insoluble in water
FLASH POINT	> 177°C (350°F), C.O.C		
EVAPORATION RATE	<1 (ethyl ether=1)	**PARTITION COEFFICIENT N-OCTANOL/WATER**	1.2 log POW
FLAMMABILITY	Does not apply	**AUTO IGNITION TEMPERATURE**	> 371°C (700°F)
DUST DEFLAGRATION INDEX	Kst 252 bar-m/sec	**DECOMPOSITION TEMPERATURE**	Not available
MINIMUM EXPLOSIVE CONCENTRATION	0.035 oz/ft^3	**VISCOSITY**	Does not apply
MAXIMUM EXPLOSIVE CONCENTRATION	Not available		

SECTION 10 – STABILITY AND REACTIVITY

REACTIVITY	No further information available.
CHEMICAL STABILITY	Stable under ordinary conditions of use and storage.
INCOMPATIBLE MATERIALS	Strong oxidants, strong bases, acids, peroxides.
CONDITIONS TO AVOID	Material as supplied is not explosive. Avoid suspending dust in the air. Ground all equipment to avoid static discharge. Suspended dust may be explosive.
HAZARDOUS DECOMPOSITION PRODUCTS	None when stored and handled as instructed. Carbon dioxide, carbon monoxide, and metal oxides if burned.

SECTION 11 – TOXICOLOGICAL INFORMATION

ACUTE TOXICITY	Oral: Rat-LD_{50}: >10,000 mg/kg
SKIN CORROSION/IRRITATION	Not classified as corrosive or an irritant
SERIOUS EYE DAMAGE/IRRITATION	Not classified as corrosive or an irritant
RESPIRATORY OR SKIN SENTINIZATION	Not classified as respiratory or skin irritant
GERM CELL MUTAGENICITY	Not classified as a germ cell mutagen

This material is not listed in the National Toxicology Program Report on Carcinogens

This material has not been found to be a carcinogen by the International Agency for Research on Cancer (IARC)

This material has not been found by OSHA to be a carcinogen or potential carcinogen

REPRODUCTIVE TOXICITY	Not classified as a reproductive toxin
STOT-SINGLE EXPOSURE	Not classified as a target organ toxin
STOT-REPEATED EXPOSURE	Not classified as a target organ toxin
ASPIRATION HAZARD	Not classified as an aspiration hazard

SECTION 12 – ECOLOGICAL INFORMATION

AQUATIC TOXICITY	
LC_{50}/48h (STATIC)	>100 mg/l (*Daphnia magna*) (OECD 202)
LC_{50}/96h (STATIC)	>10,000 mg/l (*Brachydanio rerio*) (92/69/ECC C.1) semi-static
NOEC (STATIC)	1,560 mg/l (*Photobacterium phosphoreum*) (DIN38412) 30 min.
PERSISTENCE AND DEGRATABILITY	No further information available
BIOACCUMULATIVE POTENTIAL	Due to the distribution coefficient for n-octanol/water accumulation in organisms is not expected
POTENTIAL MOVEMENT FROM SOIL TO GROUNDWATER	No data available
OTHER ADVERSE EFFECTS	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

DOT (US)
Not hazardous material

UN/NA ID NO.	N/A
PROPER SHIPPING NAME	N/A
HAZARD CLASS	N/A
PACKING GROUP	N/A

IATA
Not dangerous goods

UN/NA ID NO.	N/A
PROPER SHIPPING NAME	N/A
HAZARD CLASS	N/A
PACKING GROUP	N/A

IMDG
Not dangerous goods

UN/NA ID NO.	N/A
PROPER SHIPPING NAME	N/A
HAZARD CLASS	N/A
PACKING GROUP	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.

CHEMICAL NAME	CAS NUMBER	PERCENT
Zinc Stearate	91051-01-3	100

REPORTABLE QUANTITY Not applicable

The ingredients in this product are listed in:

Australian Inventory of Chemical Substances (AICS)
Anvisa
Brazil (MERCOSUR)
Canadian Domestic Substances List (DSL)
Chinese Inventory of Existing Chemical Substances Manufactured or Imported in China (IESCS)
European Inventory of Existing Commercial Chemical Substances (EINECS)
Japanese Existing and New Chemical Substances (ENCS)
Korean Existing Chemicals List (ECL)
Mexican National Inventory of Chemical Substances (INSQ)
New Zealand Inventory of Chemicals (NZIoC)
Philippines Inventory of Chemicals and Chemical Substances (PICCS)
Taiwan Chemical Substance Inventory (TCSI)
Thailand Existing Chemicals Inventory (TECI)
Turkey (KKDIK)
US Toxic Substances Control Act (TSCA)

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

SECTION 16 – OTHER INFORMATION

NFPA 704 RATING			HMIS RATING		
Health	Flammability	Reactivity	Health	Flammability	Reactivity
0	1	0	0	1	0

Coad Zinc Stearate Products 23 February 2023 **Date of revision 23 February 2023 to update CAS**
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