SAFETY DATA SHEET

COAD® Calcium Stearate Products

SECTION 1 - IDENTIFICATION OF THE PRODUCT AND THE COMPANY			
PRODUCT NAME	**COAD® 10, 10B, 10C, 10F, 10LD, 13FVG, 10VG,11M, 11D, 13D, 13F, 13M, 13LD, 13P, LM**	**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 except as dust
Hazard Statement EU	Not classified as a hazardous substance
Signal word	**Warning**
	May form combustible dust concentrations in the air

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS		
COMPONENTS	**CAS NO.**	**%**
Chemical names Calcium Stearate	1592-23-0	100
Calcium distearate, fatty acids C16-C18 calcium 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-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.

COAD® Calcium Stearate Products

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 (TLV): 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 29CFR 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 to 130C by DSC	**Specific gravity**	1.0
Initial boiling point	Not available	**Solubility**	Insoluble in water
Flash point	>350˚F (177°C), C.O.C.	**Partition coefficient**	Not available
Evaporation rate	<1 (ethyl ether =1)	**n-octanol/water**	
Flammability	Does not apply	**Auto ignition temperature**	>700˚ F (371˚C)
Dust deflagration index	Kst 296 bar-m/sec	**Decomposition temperature**	Not available
Minimum explosive concentration	Not available	**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 sensitization	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	
NOEC	2.2 mg/l (leuciscus idus)
Persistence and degradability	No further information available
Bioaccumulative potential	No data available
Potential movement from soil to groundwater	No data available
Other adverse effects	No further information available
Biodegradation	95% after 28 days (OECD guideline 301D)

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
none		

Reportable Quantity
Not applicable.

The ingredients in this product are listed in

Australian Inventory of Chemical Substances (AICS)

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 Exiting and New Chemical Substances (ENCS)

Korean Existing Chemicals List (ECL)

Philippines Inventory of Chemicals and Chemical Substances (PICCS)

US Toxic Substances Control Act (TSCA)

Status of Carcinogicity
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

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