

COAD[®] Zinc Stearate

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION	
Manufacturer The Norac [®] Company, Inc. P.O. Box 577 South 405 South Motor Avenue Azusa, CA 91702	Emergency Contact Chemtrec: 1-800-424-9300 (USA) (1)330-542-8400 (outside USA) Norac [®] : 1-818-334-2908
Trade Name(s): COAD [®] 20 Zinc Stearate	Chemical Name: Zinc stearate.
Relevant identified uses of the substance or mixture and uses advised against: No further relevant information available.	Application of the substance/the preparation: Lubricant and/or stabilizer for plastics and rubber.
Issued By: Sovereign Chemical Company According to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and GHS	Date of Issue: November 1, 2018

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture
 Classification according to Regulation (EC) No 1272/2008
 The product is not classified according to Globally Harmonized System (GHS) regulations.
 The product is not classified as hazardous according to OSHA GHS regulations within the United States.
 The product is not classified according to the CLP regulation.
 Classification according to Directive 67/548/EEC or Directive 1999/45/EC: Not applicable.
 Information concerning particular hazards for human and environment: Not applicable.
 Additional information
 There are no other hazards not otherwise classified that have been identified.
 0 percent of the mixture consists of component(s) of unknown toxicity.

2.2 Label elements
 Labeling according to Regulation (EC) No 1272/2008
 This product does not have a classification according to the CLP regulations.
 The product is not classified as hazardous according to OSHA GHS regulations within the United States.
 Hazard pictograms: Not regulated.
 Signal word: Not regulated.
 Hazard-determining components of labeling: None
 Hazard statements: Not regulated.
 Additional information: Safety data sheet available on request.
 Hazard description
 WHMIS-symbols: Not hazardous under WHMIS.

NFPA ratings (scale 0-4)



Health = 0
 Fire = 1
 Reactivity = 0

HMIS ratings (scale 0-4)

HEALTH	0
FIRE	1
REACTIVITY	0

Health = 0
Fire = 1
Reactivity = 0

HMIS Long Term Health Hazard Substances: Substance is not listed.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

CAS No., Description: 557-05-1, zinc stearate, Zinc distearate, fatty acids C16-C18 Zinc salts.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General information: No special measures required.

After 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.

After skin contact

Remove any contaminated clothing.

Wash thoroughly with water and soap.

If irritation or adverse symptoms develop, seek medical attention.

After eye contact

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.

After swallowing

Rinse mouth and drink plenty of water.

If symptoms persist consult a doctor.

4.2 Most important symptoms and effects, both acute and delayed: No further relevant information available.

Hazards: No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed: No further relevant information available.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing agents: Water spray, foam, carbon dioxide or dry chemical.

For safety reasons, unsuitable extinguishing agents: None.

5.2 Special hazards arising from the substance or mixture
Formation of toxic gases is possible during heating or in case of fire.
Concentrated dust may present an explosion hazard.

5.3 Advice for firefighters
Protective equipment
Wear self-contained respiratory protective device.
Wear fully protective suit.
Additional information: No further relevant information available.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures: Reduce airborne dust and prevent scattering by moistening with soapy water.

6.2 Environmental precautions: Do not allow to enter sewers/surface or ground water.

6.3 Methods and material for containment and cleaning up
Clean up spills in a manner that does not disperse dust into the air.
Use non-sparking tools and equipment.
Dispose contaminated material as waste according to Section 13.

6.4 Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid dust formation and control ignition sources.
Avoid eye contact.
Use with adequate ventilation.
Wash before eating, drinking, smoking or using toilet facilities.
Wear personal protection equipment recommended in Section 8.
Information about fire and explosion protection
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.

7.2 Conditions for safe storage, including any incompatibilities
Storage
Requirements to be met by storerooms and receptacles: Keep in a tightly closed container, stored in a cool, dry ventilated area protected against physical damage.
Information about storage in one common storage facility: Store away from foodstuffs.
Further information about storage conditions: No further relevant information available.

7.3 Specific end use(s): No further relevant information available.

8. EXPOSURE CONTROLS - PERSONAL PROTECTION

Additional information about design of technical facilities: No further data; see Section 7.

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace

557-05-1, Zinc stearate	
PEL (USA)	15 mg/m ³ total dust
TLV (USA)	10 mg/m ³ total dust for stearates

DNELs No further relevant information available.

PNECs No further relevant information available.

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Personal protective equipment

General protective and hygienic measures

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

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.

Respiratory protection: Use suitable respiratory protective device in case of insufficient ventilation.

Protection of hands



Protective Gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests, no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Eye protection



Safety goggles

Body protection: Not required under normal conditions of use.

Limitation and supervision of exposure into the environment: No special requirements.

Risk management measures: Emergency showers and eye wash stations should be available.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

General Information

Appearance Form: Powder. Color: White.	Change in Condition Melting point/Melting range: 120-130°C. Boiling point/Boiling range: Not established.
Odor: Slight fatty.	Octanol/Water Partition Coefficient: 1.2 log POW.
Odor threshold: Not determined.	pH value at 20 °C: Not applicable.
Vapor Pressure: Not applicable.	Flash point: >350°F/177°C, C.O.C.
Specific gravity: 1.0	Flammability (solid, gaseous): Not applicable.

Relative density: Not determined.	Ignition temperature: >700°F/371°C.
Vapor density: Not applicable.	Decomposition temperature: Not determined.
Evaporation rate: <1 (ether = 1).	Self-igniting: Not determined.
Solubility in / Miscibility with water: Insoluble	Dust deflagration index: Kst 252 bar-m/sec.
Viscosity Dynamic: Not applicable. Kinematic: Not applicable.	Explosion limits Lower: 0.035 oz./ft ³ . Upper: Not determined.

9.2 Other information No further relevant information available.

10. STABILITY AND REACTIVITY

10.1 Reactivity

10.2 Chemical stability

Thermal decomposition / conditions to be avoided: No decomposition if used and stored according to specifications.

10.3 Possibility of hazardous reactions

Material as supplied is not explosive.

Toxic fumes may be released if heated above the decomposition point.

10.4 Conditions to avoid

Suspending dust in air.

Ungrounded equipment.

10.5 Incompatible materials: Strong oxidants, strong bases, acids, peroxides.

10.6 Hazardous decomposition products

Carbon monoxide and carbon dioxide

Metal oxides.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

LD/LC ₅₀ values relevant for classification		
557-05-1, Zinc stearate		
Inhalation	LC	>1241 mg/m ³ /4H (unspecified mammal)
Intraperitoneal	LD ₅₀	354 mg/kg (mouse)
Intratracheal	LD _{LO}	250 mg/kg
Oral	LD ₅₀	>10 gm/kg (rat)

Primary irritant effect

on the skin: No irritant effect.

on the eye: No irritating effect.

Sensitization: No sensitizing effects known (human).

Additional toxicological information: No further relevant information available.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Aquatic toxicity

LC₅₀/48h (static): >100 mg/l (Daphnia magna) (OECD 202)LC₅₀/96h: >10000 mg/l (Brachydanio rerio) (92/69/EEC C.1) semi-static

NOEC (static): 1560 mg/l (Photobacterium phosphoreum) (DIN38412) 30 min.

12.2 Persistence and degradability: No further relevant information available.

12.3 Bioaccumulative potential: Due to the distribution coefficient for n-octanol/water accumulation in organisms is not expected.

12.4 Mobility in soil: No further relevant information available.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects: No further relevant information available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Recommendation

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

Uncleaned packaging

Recommendation: Disposal must be made according to official regulations.

14. TRANSPORTATION INFORMATION

14.1 UN-Number

DOT, ADR, ADN, IMDG, IATA Not regulated.

14.2 UN proper shipping name

DOT, ADR, ADN, IMDG, IATA Not regulated.

14.3 Transport hazard class(es)

DOT, ADR, ADN, IMDG, IATA Class Not regulated.

14.4 Packing group

DOT, ADR, IMDG, IATA Not regulated.

14.5 Environmental hazards

Marine pollutant No

14.6 Special precautions for user Not applicable.

14.7 Transport in bulk according to Annex II of
 MARPOL73/78 and the IBC Code Not applicable.
 UN "Model Regulation"

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

United States (USA)	
SARA Section 355 (extremely hazardous substances)	Ingredients are not listed.
SARA Section 313 (Specific toxic chemical listings)	557-05-1 Zinc stearate.
TSCA (Toxic Substances Control Act)	Ingredients are listed.
Carcinogenic Categories	
EPA (Environmental Protection Agency)	Ingredients are not listed.
IARC (International Agency for Research on Cancer)	Ingredients are not listed.
Canada: Domestic Substances List (DSL)	Ingredients are listed.
Australian Inventory of Chemical Substances (AICS)	Ingredients are listed.
Chinese Inventory of Existing Chemical Substances Manufactured or Imported in China (IECSC)	Ingredients are listed.
European Inventory of Existing Commercial Chemical Substances (EINECS)	Ingredients are listed.
Japanese Existing and New Chemical Substances (ENS)	Ingredients are listed.
Korean Existing Chemicals List (ECL)	Ingredients are listed.
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	Ingredients are listed.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16. OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labeling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

WHMIS: Workplace Hazardous Materials Information System (Canada)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent



Safety Data Sheet

LD50: Lethal dose, 50 percent.