

SAFETY DATA SHEET

1. IDENTIFICATION

Product identifier	Lauryl Maltose Neopentyl Glycol-Cholesterol Hemisuccinate Tris salt 10:1
Common names or synonyms	NG310-CH210 premix solution
Supplier	Anatrace Products, LLC
Address	434 West Dussel Dr
Telephone	Maumee, OH 43537
Fax	(419) 740-6600
Email	customerservice@anatrace.com
Emergency phone number	Chemtrec (800) 424-9300 Outside USA & Canada (703) 527-3887 Chemtrec ID# 696910
Chemical Characterization	Detergent
Recommended use of chemical	For research use only.
Restrictions on use	Not intended for diagnostic or therapeutic use.

2. HAZARD(S) IDENTIFICATION

Hazard classification	Classification of the substance or mixture according to Regulation (EC) No 1272/2008 Skin irritation (Category 2) Eye irritation (Category 2) Specific target organ toxicity – single exposure (Category 3) Hazardous to the aquatic environment, long-term hazard (Category 4)
Signal word	Warning
Hazard statements	H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H413 May cause long lasting harmful effects to aquatic life.
Pictograms	
Precautionary statements	P261 Avoid breathing fumes/gas/mist/vapors/spray. P273 Avoid release to the environment. P280 Wear protective gloves. P302 + P352 IF ON SKIN: Wash with plenty of soap and water.



P304 + P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P501 Dispose of contents/container to an approved waste disposal plant.

Hazards not otherwise classified

S:24 Avoid contact with skin.
S:36/37 Wear suitable protective clothing and gloves.

Percentage of mixture containing ingredients with unknown toxicity

No applicable information

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components

Chemical name	CAS number	Weight %
1) Cholesteryl hemisuccinate, tris salt (5-Cholesten-3β-ol-3-hemisuccinate)	102601-49-0	0.5%
2) Lauryl Maltose Neopentyl Glycol (2,2-didecylpropane-1,3-bis-β-D-maltopyranoside)	1257852-96-2	5%

Other name(s) Lauryl Maltose Neopentyl Glycol (NG310) and Cholesteryl Hemisuccinate (CH210) Solution LMNG/CHS Solution

Lauryl Maltose Neopentyl Glycol (50 mg/ml): CHS-TRIS (5 mg/ml) Solution

Chemical Formula

C₃₁H₅₀O₄C₄H₁₁NO₃

EC Number N/A

Impurities and stabilizing additives

N/A

Other components

None

NOTE: Components not identified are not hazardous or are below regulatory disclosure limits.

4. FIRST-AID MEASURES

GENERAL ADVICE: Seek medical advice if irritation persists.

EYES: Flush with water thoroughly for 15 minutes, lifting upper and lower lids occasionally. Seek medical advice if irritation persists.

SKIN: Flush with water, then wash thoroughly with soap and water. Remove contaminated clothing and wash before reuse. Seek medical attention if irritation persists.

INHALATION: Remove the victim from exposure and move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Seek immediate medical attention.

INGESTION: Drink plenty of water and seek immediate medical attention. Avoid alcoholic beverages. Never give anything by mouth to an unconscious person. Seek medical attention.

Wash contaminated clothing before reuse.

Symptoms and effects

Medical Care

N/A

Refer to physician. Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Extinguishing equipment	Use media suitable to extinguish the supporting or surrounding fire. Wear NIOSH (US) or CEN (EU) approved self-contained breathing apparatus. For small fires only: use water fog, dry powder, or foam. Emits toxic fumes under fire conditions. NFPA Rating: H=0 F=0 R=0. Flash Point = No data available.
Inappropriate extinguishing equipment	N/A
Flash point and method	No information available.
Hazards when burning	May be combustible at high temperature.
Special instructions for firefighters	Emits toxic fumes under fire conditions.
Firefighting equipment	Wear NIOSH (US) or CEN (EU) approved self-contained breathing apparatus and wear full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear lab coat, safety glasses, heavy rubber gloves. Avoid dust formation. Avoid contact with skin and eyes. Keep container in a well-ventilated place. Mechanical exhaust required. HMIS Ratings: H=0 F=0 R=0
Emergency procedures	Evacuate all personnel to safe areas.
Containment	Wear appropriate personal protective equipment. Keep container tightly closed. Avoid contact of material with skin or eyes. Use adequate ventilation. Store at -20°C.
Clean-up procedures	Use personal protective equipment. Vacuum or sweep into closed container for disposal. Use care to avoid dust generation. Wear a NIOSH respirator approved for nuisance dust if conditions exist where dust is possible. Wash area with soap and water.

7. HANDLING AND STORAGE

Handling	Exercise caution when handling contents of the container. Wash with soap and water before eating, drinking, smoking, or using toilet facilities.
Storage	Keep in closed or covered containers when not in use. Store in cool dry place with adequate ventilation.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA Permissible Exposure Limits (PELs)	N/A
American Conference of Governmental Industrial Hygienists Threshold Limit Values (TLVs)	N/A
Other recommended exposure limits	This product does not contain any hazardous materials with occupational exposure limits established by the region-specific regulatory bodies.
Engineering controls	Showers Eyewash stations Ventilation systems
Personal protective measures	
Eye/Face	Chemical splash goggles
Skin and Body	Wear protective gloves and adequate clothing, rubber boots
Respiratory	NIOSH-approved respirator, if dust levels are a nuisance
Requirements for personal protective equipment	Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid	Color	Clear
Odor	No information	Odor threshold	No information available
pH	5-8	Flash point	Not applicable
Melting point	No data available	Freezing point	No information available
Initial boiling point	No information available	Boiling range	Not applicable
Evaporation rate	No information available	Flammability	No information available
Upper flammability	No data available	Lower flammability	No data available
Vapor pressure	No data available	Vapor density	No information available

Relative density	No data available	Viscosity	No data available
Solubility	Soluble, water	Partition coefficient	No data available
Auto-ignition temperature	No information available	Decomposition temperature	No information available

10. STABILITY AND REACTIVITY

Reactivity	Product is stable.
Chemical stability	None.
State in normal ambient temperature and conditions	Stable.
Necessary stabilizers	None.
Safety issues if product changes physical appearance	N/A
Other	
Possibility of hazardous reactions	Hazardous polymerization will not occur under standard conditions.
Conditions to be avoided	None.
Incompatible materials	Excess exposure to heat, light and air.
Known or anticipated hazardous decomposition products	Hazardous decomposition products include carbon oxides.

11. TOXICOLOGICAL INFORMATION

Effects of exposure	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Routes of exposure	May be harmful by inhalation, ingestion, or skin absorption.
Short-term exposure	EYES: May cause eye irritation and slight corneal injury. SKIN: Prolonged or repeated skin contact may result in irritation. May cause flushing and/or allergic reaction. INHALATION: No known toxicity, but excessive dust may cause irritation if inhaled. Dust may stimulate nasal mucosa. INGESTION: Chronic ingestion or excessive dosage may cause nausea, vomiting, urine discoloration, ataxia, and peripheral sensory neuropathy.
Long-term exposure	There are no known chronic effects associated with this material.
Medical conditions aggravated by exposure	No information available



Toxicity

Acute Toxicity

RTECS: No data available

Chronic Toxicity

No information available

Symptoms

No information available

Carcinogen or potential carcinogen

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity

May cause long lasting harmful effects to aquatic life.

Persistence/degradability

No information available

Bioaccumulation potential

No information available

Potential for soil to groundwater movement

No information available

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Disposal	Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Dispose of material in accordance with applicable local, state, and federal regulations.
Appropriate containers	No information available
Appropriate methods	No information available
Physical and chemical properties affecting disposal	No information available
Precautions for landfills or incineration activities	No information available
RCRA hazardous waste code	N/A
Special instructions	No information available

NOTE: Chemicals should not be disposed of in or near sewers and waterways.

14. TRANSPORT INFORMATION

UN number	N/A	UN proper shipping name	N/A
Transport hazard classes			
Department of Transportation hazard class	N/A	Transportation of Dangerous Goods hazard class	N/A
Packing group number	N/A		
Environmental hazards	No information available		
Guidance on transport in bulk	No information available		
Special transport or conveyance precautions	DOT (US)- Not regulated. IMDG- Not regulated. IATA- Not regulated.		

15. REGULATORY INFORMATION

OSHA regulatory status (29 CFR 1910.1200)	SARA 302 - No applicable information. SARA 313 - This material is not reportable under 313 California Proposition 65 - No applicable information
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Department of Transportation regulations

Not regulated under current DOT, IMO, or ICAO regulations
RCRA - No applicable information.

Environmental Protection Agency regulations

TSCA Inventory Status Listed No applicable information
Exposure Limits - Not established

Consumer Product Safety Commission regulations

No applicable information.

16. OTHER INFORMATION

Abbreviations

ACGIH – American Conference of Governmental Industrial Hygienists
NIOSH – The National Institute for Occupational Safety and Health
HMIS – Hazardous Material Identification System
RTECS – Registry of Toxic Effects of Chemical Substances
IARC – International Agency for Research on Cancer
EPA – Environmental Protection Agency
RCRA – Resource Conservation and Recovery Act
SARA – Superfund Amendments and Reauthorization Act
NTP – National Toxicology Program Annual Report on Carcinogens
LC50 – Lethal Concentration to 50 % of a test population
LD50 – Lethal Dose to 50% of a test population
OECD – Organization for Economic Co-operation and Development
TSCA – Toxic Substances Control Act (United States)

Creation

1/09/2019

Latest revision

9/28/20

SDS number

NG310-CH210

Disclaimer

The above information is believed correct but is not guaranteed to be all-inclusive and shall only be used as a guide. The Company shall not be held liable for any damage resulting from handling or contact with the above product.