

Safety Data Sheet: LONG LIFE 6100 COOLANT PLUS, MM

Supersedes Date 10/07/2014

Issuing Date 03/21/2018

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name LONG LIFE 6100 COOLANT PLUS, MM
Recommended use Cutting fluid
Information on Manufacturer
CERTIFIED LABS, DIV. OF NCH CORP.
BOX 152170
IRVING, TEXAS 75015

Product Code 554J
Chemical nature Amines
Emergency Telephone Number
CHEMTREC® 800-424-9300
Telephone inquiry
972-579-2477

2. HAZARD IDENTIFICATION

Color Yellow

Physical state Liquid

Odor Amine-like

GHS Classification

Physical Hazards

None

Health Hazard

Skin Corrosion/Irritation
Serious Eye Damage/Eye Irritation
Skin sensitization
Reproductive Toxicity

Category 2
Category 2A
Category 1
Category 1B

Other hazards

None

Labeling

Signal Word

DANGER



Hazard statements

H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H360 - May damage fertility or the unborn child

Precautionary Statements

P202 - Do not handle until all safety precautions have been read and understood
P280 - Wear protective gloves, protective clothing and eye protection.
P264 - Wash face, hands and any exposed skin thoroughly after handling.
P261 - Avoid breathing mist
P272 - Contaminated work clothing should not be allowed out of the workplace
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
P333 + P313 - If skin irritation or rash occurs, get medical attention
P362 - Take off contaminated clothing and wash before reuse.
P337 + P313 - If eye irritation persists, get medical attention.
P308 + P313 - IF exposed or concerned, get medical attention
P501 - Dispose of contents and container in accordance with applicable local regulations.

17 % of the mixture consists of ingredient(s) of unknown toxicity.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight %
Water, distilled, conductivity or of similar purity	7732-18-5	60-100
2-Amino-2-methyl-1-propanol	124-68-5	7-13
Amine Salt of Azelaic Acid and Ethanolamine	242132-61-2	5-10
Sodium borate decahydrate	1303-96-4	3-7
Azelaic acid	123-99-9	3-7
Tallow alkylamine ethoxylate surfactant	61791-26-2	1-5
Ethylene Glycol Monophenyl Ether	TRADE SECRET	1-5
Propanol, 2-(methylamino)-2-methyl-	27646-80-6	1-5

4-(2-Nitrobutyl)morpholine	2224-44-4	0.1-1.0
Tolyltriazole	29385-43-1	0.1-1.0
Methylene dimorpholine	5625-90-1	<0.1
Morpholine	110-91-8	<0.1
4,4'-(2-Ethyl-2-nitropropane-1,3-diyl)bismorpholine	1854-23-5	<0.1
1-Nitropropane	108-03-2	<0.1
Ethylenediaminetetraacetic acid	60-00-4	<0.1
Acid yellow 73	518-47-8	<0.1
Nitrilotriacetic acid	139-13-9	<0.1
Ethylene oxide	75-21-8	NF
1,4-Dioxane	123-91-1	NF
1,4-Dioxane	123-91-1	NF

*The exact percentage (concentration) of composition has been withheld as a trade secret

4. FIRST AID MEASURES

General advice	Avoid contact with skin, eyes and clothing. Avoid breathing mist.
Eye Contact	Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if irritation develops and persists.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention if irritation develops and persists. Wash contaminated clothing before re-use.
Inhalation	No hazards which require special first aid measures.
Ingestion	Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention if symptoms occur.
Notes to physician	May cause sensitization of susceptible persons.

5. FIRE-FIGHTING MEASURES

Flash Point	> 201 °F / > 94 °C	Method	Seta closed cup	Lower:	3
Flammability Limits in Air %:	Mixture.	Upper:	23.5		
Suitable Extinguishing Media	Water spray. Carbon dioxide (CO ₂). Foam. Dry chemical. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.				
Specific hazards arising from the chemical	Material can create slippery conditions.				
Protective Equipment and Precautions for Firefighters	As in any fire, wear self-contained breathing apparatus pressure-demand, NOHSC (approved or equivalent) and full protective gear.				
NFPA	Health 2	Flammability 1	Instability 0		
HMIS -	Health 2	Flammability 1	Instability 0		

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Use personal protective equipment. Ensure adequate ventilation. Prevent further leakage or spillage if safe to do so. Material can create slippery conditions.
Environmental Precautions	Do not flush into surface water or sanitary sewer system.
Methods for Containment	Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).
Methods for Cleaning Up	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Neutralizing Agent	Not applicable.

7. HANDLING AND STORAGE

Handling	Avoid contact with skin, eyes and clothing. Avoid breathing mist.
Storage	Store in original container. Keep container tightly closed in a dry and well-ventilated place. Freezing will affect the physical condition but will not damage the material. Thaw and mix before using.
Storage Temperature	Minimum 35 °F / 2 °C Maximum 120 °F / 49 °C
Storage Conditions	Indoor X Outdoor Heated Refrigerated

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH
Sodium borate decahydrate	TWA: 2 mg/m ³ inhalable fraction STEL: 6 mg/m ³	No data available	TWA: 5 mg/m ³ TWA: 1 mg/m ³
Azelaic acid	3 mg/m ³ PNOS	5 mg/m ³ PNOR	No data available

Engineering Measures	Ensure adequate ventilation, especially in confined areas. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.
Personal Protective Equipment	
Eye/Face Protection	Tightly fitting safety goggles.
Skin Protection	Wear suitable protective clothing, Impervious gloves.
Respiratory Protection	In case of inadequate ventilation wear respiratory protection. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
General Hygiene Considerations	Wear protective gloves/clothing. Ensure that eyewash stations and safety showers are close to the workstation location.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid	Viscosity	Non viscous
Color	Yellow	Odor	Amine-like
Odor Threshold	Not applicable	Appearance	Transparent
pH	10.9	Specific Gravity	1.07
Evaporation Rate	0.46 (Butyl acetate=1)	Percent Volatile (Volume)	82.4
VOC Content (%)	13	VOC Content (g/L)	139.1
Vapor Pressure	15.5 mmHg @ 70°F	Vapor Density	0.6 (Air = 1.0)
Solubility	Completely soluble	n-Octanol/Water Partition	No data available
Melting Point/Range	No data available	Decomposition Temperature	No data available
Boiling Point/Range	No data available	Flammability (solid, gas)	No data available
Flash Point	> 201 °F / > 94 °C	Method	Seta closed cup
Autoignition Temperature	No information available.		
Flammability Limits in Air %:	Mixture	Upper: 23.5 Lower: 3	

10. STABILITY AND REACTIVITY

Chemical Stability	Stable. Hazardous polymerization does not occur.
Conditions to Avoid	Heat, flames, and sparks.
Incompatible Products	Strong oxidizing agents, Reducing agents, Acids, Aluminum, Copper (Product/Concentrated solution), Halogenated compounds, Nitriles, Nitrates, Metals.
Decomposition Temperature	No data available
Hazardous Decomposition Products	Carbon oxides, Nitrogen oxides (NOx), Sulfur oxides, Oxides of phosphorus, Formaldehyde, Ammonia.
Possibility of Hazardous Reactions	None under normal processing.

11. TOXICOLOGICAL INFORMATION

Product Information No information available.

The following values are calculated based on chapter 3.1 of the GHS document

Oral LD50	No information available
Dermal LD50	No information available
Inhalation LC50	
Gas	No information available
Mist	No information available
Vapor	No information available

Principle Route of Exposure Skin contact, Eye contact, Inhalation.

Primary Routes of Entry Skin contact, Skin Absorption.

Acute Effects:

Eyes	Causes serious eye irritation.
Skin	May cause allergic skin reaction. Causes skin irritation.
Inhalation	Low hazard for usual industrial or commercial handling.
Ingestion	Low hazard for usual industrial or commercial handling.

Chronic Toxicity May cause sensitization of susceptible persons. Contains a known or suspected reproductive toxin.

Target Organ Effects Skin, Eyes, Respiratory system, Reproductive System.

Aggravated Medical Conditions Respiratory disorders, Skin disorders.

Component Information

Acute Toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50	Draize Test	Other
Water, distilled, conductivity or of similar purity 7732-18-5	> 90 mL/kg (Rat)	no data available	No data available	No data available	No data available
2-Amino-2-methyl-1-propanol 124-68-5	= 2900 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	No data available	No data available	No data available
Sodium borate decahydrate 1303-96-4	= 2660 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	No data available	No data available	No data available

Tolyltriazole 29385-43-1	= 675 mg/kg (Rat)	no data available	No data available	No data available	No data available
Morpholine 110-91-8	= 1050 mg/kg (Rat)	310 - 810 mg/kg (Rabbit)	= 8 mg/l (Rat) 4 h	No data available	No data available
1-Nitropropane 108-03-2	= 455 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	= 11.02 mg/L (Rat) 1 h	No data available	No data available
Ethylenediaminetetraacetic acid 60-00-4	= 1700 mg/kg (Rat)	no data available	No data available	No data available	No data available
Nitrilotriacetic acid 139-13-9	= 1100 mg/kg (Rat)	no data available	No data available	No data available	No data available
Ethylene oxide 75-21-8	= 72 mg/kg (Rat)	no data available	= 800 ppm (Rat) 4 h	No data available	No data available
1,4-Dioxane 123-91-1	= 5170 mg/kg (Rat)	= 7600 µL/kg (Rabbit)	= 46 mg/L (Rat) 2 h	No data available	No data available
1,4-Dioxane 123-91-1	= 5170 mg/kg (Rat)	= 7600 µL/kg (Rabbit)	= 46 mg/L (Rat) 2 h	No data available	No data available

Chronic Toxicity

Chemical Name	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Sodium borate decahydrate 1303-96-4	No data available	No data available	No data available	X	Skin; Eyes; Respiratory system
4-(2-Nitrobutyl)morpholine 2224-44-4	No data available	Skin sensitizer	No data available	No data available	No data available
Morpholine 110-91-8	No data available	No data available	No data available	No data available	Skin; Eyes; Respiratory system; Liver; Kidney
4,4'-(2-Ethyl-2-nitropropane-1,3-diyl)bismorpholine 1854-23-5	No data available	Skin sensitizer	No data available	No data available	No data available
1-Nitropropane 108-03-2	No data available	No data available	No data available	No data available	Central nervous system; Eyes; Liver; Kidney
Ethylene oxide 75-21-8	No data available	No data available	No data available	No data available	Blood; Skin; Central nervous system; Eyes; Respiratory system; Reproductive System; Liver; Kidney
1,4-Dioxane 123-91-1	No data available	No data available	No data available	No data available	Skin; Eyes; Respiratory system; Liver; Kidney
1,4-Dioxane 123-91-1	No data available	No data available	No data available	No data available	Skin; Eyes; Respiratory system; Liver; Kidney

Carcinogenicity

There are no known carcinogenic chemicals in this product.

Chemical Name	ACGIH	IARC	NTP	OSHA	Other
Morpholine 110-91-8	not applicable	Group 3	not applicable	not applicable	not applicable
Nitrilotriacetic acid 139-13-9	not applicable	Group 2B	Reasonably Anticipated	X	not applicable
Ethylene oxide 75-21-8	A2	Group 1	Known	X	not applicable
1,4-Dioxane 123-91-1	A3	Group 2B	Reasonably Anticipated	X	not applicable
1,4-Dioxane 123-91-1	A3	Group 2B	Reasonably Anticipated	X	not applicable

12. ECOLOGICAL INFORMATION**Product Information**

No information available.

Component Information

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Crustacea	Partition coefficient
2-Amino-2-methyl-1-propanol	EC50 = 520 mg/L Desmodesmus subspicatus 72 h	LC50 = 190 mg/L Lepomis macrochirus 96 h	No information available	193: 48 h Daphnia magna mg/L EC50	N/A
Sodium borate decahydrate	EC50 = 158 mg/L Desmodesmus subspicatus 96 h EC50 2.6 - 21.8 mg/L Pseudokirchneriella subcapitata 96 h	LC50 = 340 mg/L Limanda limanda 96 h	No information available	1085 - 1402: 48 h Daphnia magna mg/L LC50	N/A
Morpholine	EC50 = 28 mg/L Pseudokirchneriella subcapitata 96 h	LC50 = 350 mg/L Lepomis macrochirus 96 h LC50 375 - 460 mg/L Oncorhynchus mykiss 96 h LC50 > 1000 mg/L Brachydanio rerio	EC50 = 57.0 mg/L 30 min	No information available.	-2.55

		96 h			
1-Nitropropane	EC50 = 98 mg/L Desmodesmus subspicatus 72 h	No information available.	EC50 = 42.8 mg/L 5 min EC50 = 45.4 mg/L 15 min EC50 = 50.8 mg/L 30 min	No information available.	0.851
Ethylenediaminetetraacetic acid	EC50 = 1.01 mg/L Desmodesmus subspicatus 72 h	LC50 34 - 62 mg/L Lepomis macrochirus 96 h LC50 44.2 - 76.5 mg/L Pimephales promelas 96 h	No information available	113: 48 h Daphnia magna mg/L EC50 Static	N/A
Ethylene oxide	No information available.	LC50 73 - 96 mg/L Pimephales promelas 96 h	No information available	137 - 300: 48 h Daphnia magna mg/L LC50	-0.3
1,4-Dioxane	No information available.	LC50 > 10000 mg/L Lepomis macrochirus 96 h LC50 = 9850 mg/L Pimephales promelas 96 h LC50 10306 - 14742 mg/L Pimephales promelas 96 h	EC50 = 610 mg/L 5 min EC50 = 668 mg/L 15 min EC50 = 733 mg/L 30 min	163: 48 h water flea mg/L EC50 Static	-0.42
1,4-Dioxane	No information available.	LC50 > 10000 mg/L Lepomis macrochirus 96 h LC50 = 9850 mg/L Pimephales promelas 96 h LC50 10306 - 14742 mg/L Pimephales promelas 96 h	EC50 = 610 mg/L 5 min EC50 = 668 mg/L 15 min EC50 = 733 mg/L 30 min	163: 48 h water flea mg/L EC50 Static	-0.42

Persistence and Degradability

No information available.

Bioaccumulation

No information available.

Mobility

No information available.

13. DISPOSAL CONSIDERATIONS

Product Disposal

Dispose of in accordance with local regulations.

Container Disposal

Empty containers should be taken for local recycling, recovery, or waste disposal.

14. TRANSPORT INFORMATION

DOT	Not regulated
TDG	Not regulated
ICAO	Not regulated
IATA	Not regulated
IMDG/IMO	Not regulated

15. REGULATORY INFORMATION

Inventories**TSCA**

Complies

DSL

Complies

U.S. Federal Regulations**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazardous Categorization

See Section 2

CERCLA

Chemical Name	Hazardous Substances RQs	CERCLA EHS RQs
Ethylenediaminetetraacetic acid	5000 lb	Not applicable
Ethylene oxide	10 lb	1000 lb TPQ 10 lb
1,4-Dioxane	100 lb	Not applicable
1,4-Dioxane	100 lb	Not applicable

16. OTHER INFORMATION

Prepared By

Samantha Purvis

Supersedes Date	10/07/2014
Issuing Date	03/21/2018
Reason for Revision	No information available.
Glossary	No information available.
List of References.	No information available.

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