



Safety Data Sheet

1. Product and Company Identification

Product Name:	Lube Cool 150
CAS#:	EQ-LubeCool-150-LD
Identified uses:	Water Additive and Rust Inhibitor
Contact Information:	MTI Corporation 860 South 19 th Street Richmond, CA 94804, USA Tel: 510-525-3070 Fax: 510-525-4705 Email: info@mtixtl.com Website: www.mtixtl.com
Non-emergency assistance:	1-888-525-3070
Emergency assistance:	Company: CHEMTEL (MTI Contract# MIS2559467) Day or Night Tel (Within USA and Canada): 1-800-255-3924 Tel (Outside USA and Canada): 1-813-248-0585

2. Hazards Identification

Emergency Overview: GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Carcinogenicity (Category 1B), H361

Reproductive toxicity (Category 1B), H350

For the full text of the H-Statements mentioned in this Section, see Section 16.

HMIS Rating

Health hazard: 2

Chronic Health Hazard: *

Flammability: 0

Physical Hazard 0

NFPA Rating

Health hazard: 2

Fire Hazard: 0

Reactivity Hazard: 0

GHS Label elements, including precautionary statements

Pictogram	
Signal	Danger
Hazard statement(s)	
H350	May damage fertility or the unborn child.
H361	Suspected of damaging fertility or the unborn child.
Precautionary statement(s)	
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P308 + P313	If exposed or concerned: Get medical advice / attention.



Hazards not otherwise classified (HNOC) or not covered by GHS

Harmful to aquatic life with long lasting effect.

3. Composition/Information on Ingredients

Substance Name	Sodium Borate Hydrate	Substance Name	Sodium nitrate
Formula	Na ₂ B ₄ O ₇ ·10H ₂ O	Formula	NaNO ₃
Synonyms	Borax. Disodium Tetraborate Decahydrate	Molecular weight	84.99 g/mol
Molecular weight	381.37 g/mol	CAS-No.	7631-99-4
CAS-No.	1303-96-4		

COMPOSITION IS PROPRIETARY.

Hazardous Components

Component	Classification
Sodium Borate Hydrate	Included in the Candidate List of Substances of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH)
	Repr. 2; H361
Sodium nitrate	
	Ox. Sol. 3; Eye Irrit. 2A; H272, H319

4. First Aid Measures

4.1 Description of first aid measures

General advice

If exposed or concerned: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled

Remove to fresh air. If irritation persists, call a physician or poison center.

In case of skin contact

Wash off with soap and plenty of water. If irritation persists, call a physician or poison center.

In case of eye contact

Flush with cool water for at least 15 minutes and call a physician or poison center.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. Firefighting Measures

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol resistant-foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance mixture

When strongly heated, as in a fire, this product may produce nitrous oxides and ammoniacal vapors.



5.3 Advice for firefighters

Wear self-contained breathing apparatus pressure demand. MSHA/NIOSH (approved or equivalent) and full protective gear. Use water spray or mist to cool fire exposed containers.

5.4 Further Information

Use water spray to cool unopened containers.

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Solid: Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

Liquid: If this material is released or spilled. Remove with a wet vac or scrub area with scrubber or floor machine if available. This product may cause slippery conditions; rinse thoroughly. Do not let the product enter the drain.

6.4 Reference to other sections

For disposal see section 13.

7. Handling and Storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be take into consideration before additional processing occurs.

Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep this product in a properly labeled. Tightly closed container.

Incompatible Materials: Strong oxidizing agents.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. Exposure Control/ Personal Protection

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control Parameters	Basis
Disodium tetraborate	1303-96-4	TWA	2.000000	USA. ACGIH Threshold Limit Values



decahydrate			mg/m3	(TLV)
	Remarks	Upper Respiratory Tract irritation Not classifiable as a human carcinogen varies		
		STEL	6.000000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Upper Respiratory Tract irritation Not classifiable as a human carcinogen varies		
		TWA	5.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	2.000000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Upper Respiratory Tract irritation Not classifiable as a human carcinogen varies		
		STEL	6.000000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Upper Respiratory Tract irritation Not classifiable as a human carcinogen varies		
		PEL	5 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls.

If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

a) Appearance	Form: crystalline Color: white
b) Odor	No data available
c) Odor Threshold	No data available
d) pH	10
e) Melting point/freezing point	167°F (75°C)
f) Initial boiling point and	716°F (380°C) temperature of decomposition
g) Flash point	None
h) Evaporation rate	No data available
i) Flammability (solid, gas)	The product is not flammable.
j) Upper/lower flammability or explosive limits	No data available No data available
k) Vapor pressure	No data available
l) Vapor density	No data available
m) Relative density	No data available
n) Water solubility	100% soluble
o) Partition coefficient: n-octanol/water	log Pow: -1.53
p) Auto-ignition temperature	No data available
q) Decomposition temperature	No data available
r) Viscosity	No data available
s) Explosive properties	No data available
t) Oxidizing properties	No data available

9.2 Other safety information

None

10. Stability and Reactivity

10.1 Reactivity

Not reactive under normal reaction.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous polymerization will not occur.



10.4 Conditions to avoid

Incompatible Materials.

10.5 Incompatible materials

Strong oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Borane/boron oxides, Sodium oxides

Other decomposition products - No data available

In the event of fire: see section 5

11. Toxicological Information

11.1 Information on toxicological effects

Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50	Intravenous LD50
Borax 1303-96-4	4,500 – 5,000 mg/kg (Rat)	10,000 mg/kg (Rabbit)	4 h -> 2.04 mg/l (OECD Test Guideline 403) (Rat)	-

Skin corrosion/irritation

Skin - Rabbit

Result: No skin irritation

Serious eye damage/eye irritation

Eyes - Rabbit

Result: Eye irritation

Respiratory or skin sensitization

in vivo assay - Mouse

Does not cause skin sensitization.

(OECD Test Guideline 429)

Germ cell mutagenicity

Human

HeLa cell

Unscheduled DNA synthesis

Mouse

Micronucleus test

Mouse

Cytogenetic analysis

Carcinogenicity

No data available

Reproductive toxicity

Fetotoxicity

Suspected human reproductive toxicant

Reproductive toxicity - Mouse - male - Oral

Paternal Effects: Spermatogenesis (including genetic material, sperm morphology, motility, and count).

Specific target organ toxicity - single exposure

Inhalation - May cause respiratory irritation.

Specific target organ toxicity - repeated exposure

No data available

**Aspiration hazard**

No data available

Additional Information

RTECS: VZ2275000

Animal feeding studies in rat, mouse and dog, at high doses, have demonstrated effects on fertility and testes. Studies with the chemically related boric acid in the rat, mouse and rabbit, at high doses, demonstrate developmental effects on the fetus, including fetal weight loss and minor skeletal variations. The doses administered were many times in excess of those to which humans would normally be exposed.

CHRONIC HEALTH EFFECTS: Repeated or prolonged exposure may cause dermatitis. Pre-existing health conditions may be aggravated by exposure to components of these products. Human epidemiological studies show no increase in pulmonary disease in occupational populations with chronic exposures to boric acid dust and sodium borate dust. A recent epidemiological study under the conditions of normal occupational exposure to borate dusts indicated no effect on fertility.

12. Ecological Information

12.1 Toxicity

Borax 7631-99-4	
Toxicity to fish	LC50 - Carassius auratus (goldfish) - 178 mg/l - 72 h
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 1,085 - 1,402 mg/l - 48 h
Toxicity to bacteria	IC50 - Desmodesmus subspicatus (green algae) - 158 mg/l - 96h
Sodium Nitrate 7631-99-4	
Toxicity to fish	static test LC50 - Gambusia affinis (Mosquito fish) - 6,650 mg/l - 96h
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 6,000 mg/l - 24h

12.2 Persistence and degradability

The methods for determining biodegradability are not applicable to inorganic substances.

12.3 Bioaccumulative potential

No bioaccumulation is to be expected (log Pow <= 4).

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment PBT/vPvB assessment

Not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

No data available

13. Disposal Considerations

13.1 Waste treatment methods**Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.



Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

14. Transport Information

DOT (US)

UN number: 1498 Class: 5.1 Packing group: III

Proper shipping name: Sodium nitrate

Reportable Quantity (RQ):

Poison Inhalation Hazard: No

IMDG

UN number: 1498 Class: 5.1 Packing group: III EMS-No: F-A, S-Q

Proper shipping name: SODIUM NITRATE

IATA

UN number: 1498 Class: 5.1 Packing group: III

Proper shipping name: Sodium nitrate

15. Regulatory Information

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Chronic Health Hazard, Reactivity Hazard

Massachusetts Right to Know Components	CAS-No.	Revision Date
Disodium tetraborate decahydrate	1303-96-4	2007-03-01
Sodium nitrate	7631-99-4	1993-04-24

Pennsylvania Right to Know Components

Disodium tetraborate decahydrate	1303-96-4	2007-03-01
Sodium nitrate	7631-99-4	1993-04-24

New Jersey Right to Know Components

Disodium tetraborate decahydrate	1303-96-4	2007-03-01
Sodium nitrate	7631-99-4	1993-04-24

California Prop. 65 Components

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

16. Other Information

H361	Suspected of damaging fertility or the unborn child.
Repr.	Reproductive toxicity
Eye Irrit.	Eye irritation
H272	May intensify fire; oxidiser.
H319	Causes serious eye irritation.
Ox. Sol.	Oxidizing solids



The information above is believed to be accurate and represents the best information currently available to us. However, it does not represent any guarantee of the properties of the product. We make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we shall not be held liable for any damage resulting from handling or from contact with the above product. Users should make their own investigations to determine the suitability of the information for their particular purposes.