SAFETY DATA SHEET

Revision Date 27-Oct-2014

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

GHS product identifier : Hi Temp Lithium Complex
Code : HTL
Product type : Semi-Solid

Identified uses
Lubricating Grease

Details of the supplier of the safety data sheet

Manufacturer Address : U.S. Lubricants, A Division of U.S. Venture, Inc.
425 Better Way
Appleton, WI 54915

Emergency telephone number

Company Phone Number 800-490-4900
24 Hour Emergency Phone Number 800-688-4005 DTCG84-01-A-900043

2. HAZARDS IDENTIFICATION

OSHA/HCS status :
Classification of the substance or mixture : Skin Sens. 1 H317
Repr. 2 H361

GHS label elements

Hazard pictograms :

Signal word : Warning
Hazard statements : H317 – May cause an allergic skin reaction
: H361 - Suspected of damaging fertility or the unborn child

Precautionary statements

Prevention : P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P261 - Avoid breathing fume, mist, vapors
P272 - Contaminated work clothing must not be allowed out of the workplace
P280 - Wear eye protection, protective clothing, protective gloves, face protection
P302+P352 - If on skin: Wash with plenty of water
P308+P313 - If exposed or concerned: Get medical advice/attention
P321 - Specific treatment (see Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work on this label)
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention
P362+P364 - Take off contaminated clothing and wash it before reuse
P405 - Store locked up
P501 - Dispose of contents/container to licensed waste handling facility

Hazards not otherwise classified : No additional information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture : Mixture

Other means of identification : Not available.

CAS number/other identifiers
CAS number : Not applicable.
Product code : HTL

United States

Ingredient name	%	CAS number
Corrosion Inhibitor	0.1 - 1	Proprietary
2-Naphthalenol, 1-[[4-(phenylazo)phenyl]azo]-, ar-heptyl ar',ar''-methyl derivatives	0.1 - 1	92257-31-3
*In accordance with paragraph (i) of the OSHA Hazard Communication Standard (29 CFR §1910.1200), the specific chemical identity has been withheld as a trade secret		

*****Regulated by OSHA (29 CFR 1910.1200)

All ingredients of this product are on the TSCA Inventory List.

4. FIRST AID MEASURES

Description of necessary first aid measures
General : If exposed or concerned, get medical attention/advice. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious person.
Eye contact : IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. If pain, blinking, or irritation develops or persists, get medical attention. Continue rinsing.
Inhalation : IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if breathing is affected. If breathing is difficult, supply oxygen.
Skin contact : IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with water for at least 15 minutes. If irritation develops or persists, get medical attention.
Ingestion : IF SWALLOWED: rinse mouth thoroughly. Do not induce vomiting without advice from poison control center or medical professional. Get medical attention if you feel unwell.

Most important symptoms/effects, acute and delayed
Potential acute and delayed health effects
Eye contact : Direct contact with the eyes is likely to be irritating.
Inhalation : May cause respiratory irritation.
Skin contact : May cause skin irritation or allergic reaction.
Ingestion : May cause gastrointestinal irritation.

Indication of immediate medical attention and special treatment needed, if necessary
No additional information available.

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media	:	Carbon dioxide. Dry powder. Foam. Water spray. Sand.
Unsuitable extinguishing media	:	None known.

Special Hazards Arising from the Substance or Mixture

Fire Hazard	:	Not flammable
Explosion Hazard	:	Product is not explosive
decomposition products		
Reactivity	:	No dangerous reactions known under normal conditions of use.

Advice for Fire Fighters

Firefighting Instructions	:	Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Do not dispose of fire-fighting water in the environment.
Protection during firefighting	:	Do not enter fire area without proper protective equipment, including respiratory protection. Wear self-contained breathing apparatus and protective suit. (see item 8).

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	:	Wear Protective equipment as described in Section 8.
For emergency responders	:	Wear suitable protective clothing, gloves and eye or face protection. Approved supplied-air respirator, in case of emergency.
Environmental precautions	:	Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

Methods and materials for containment and cleaning up

: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Sweep or shovel spills into appropriate container for disposal. This material and its container must be disposed of in a safe way, and as per local legislation.

7. HANDLING AND STORAGE

Precautions for safe handling

Precautions for safe handling	:	Do not handle until all safety precautions have been read and understood. Keep away from sources of ignition - No smoking. Provide appropriate exhaust ventilation at places of dust forming. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
Conditions for safe storage, including any incompatibilities	:	Keep only in the original container in a cool, well ventilated place away from: Heat sources. Keep container closed when not in use.
Specific end use	:	No additional information available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Controls

Appropriate engineering controls : Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment with flammable materials. Ensure adequate ventilation, especially in confined areas.

Personal protective equipment : Gloves. Protective goggles. Protective clothing.

Individual protection measures

Eye/face protection : Wear eye protection, including chemical splash goggles and a face shield when possibility exists for eye contact due to spraying liquid or airborne particles.

Skin protection

Hand protection : Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl. Suitable gloves for this specific application can be recommended by the glove supplier.

Skin and body protection : Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure.

Respiratory protection : Use NIOSH-approved dust/particulate respirator. Where vapor, mist, or dust exceed PELs or other applicable OELs, use NIOSH-approved respiratory protective equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Grease
Physical state	:	Semi-solid
Color	:	Amber
Odor	:	Petroleum-like odour.
Odor threshold	:	Not available.
pH	:	7 - 7.2
Relative evaporation rate	:	Not available.
Melting point / Pour point	:	Not available.
Freeze Point	:	Not available.
Boiling point	:	> 371 °C (700 °F).
Flash point	:	> 204 °C (400 °F)
Self-Ignition Temperature	:	Not available.
Decomposition Temperature	:	Not available.
Flammability (solid, gas)	:	Not available.
Vapor pressure	:	< 1 mmHg (20 °C)
Relative Vapor density @ 20C	:	Not available.
Relative density	:	0.906 / 0.900 (20°C)
Solubility	:	Water: < 5 %
Log Pow	:	Not available.
Log Kow	:	Not available.
Decomposition temperature	:	Not available.
Viscosity; Kinematic	:	>1000 cSt
Viscosity; dynamic	:	Not available.
Explosive properties	:	Not available.
Oxidizing Properties	:	Not available.
Explosive Limits	:	Not available.

10. STABILITY AND REACTIVITY

Reactivity : No dangerous reactions known under normal conditions of use.
Chemical stability : Stable under recommended handling and storage conditions (see section 7).

Possibility of hazardous reactions : None known

Conditions to avoid : None known.

Incompatible materials : Oxidizing agents
Hazardous decomposition products : Thermal decomposition generates: Carbon oxides (CO, CO_2).

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity
There is no data available.
Irritation/Corrosion
There is no data available.
Sensitization
May cause an allergic skin reaction.
Carcinogenicity
There is no data available.
Reproductive toxicity
Suspected of damaging fertility or the unborn child.
Specific target organ toxicity (single exposure)
There is no data available.
Specific target organ toxicity (repeated exposure)
There is no data available.
Aspiration hazard
There is no data available.

Information on the likely routes of exposure : Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects
Eye contact : Direct contact with the eyes is likely to be irritating.
Inhalation : May cause respiratory irritation.
Skin contact : May cause skin irritation or allergic reaction.
Ingestion : May cause gastrointestinal irritation.
Chronic symptoms : May cause an allergic skin reaction. May damage fertility. May damage the unborn child.

12. ECOLOGICAL INFORMATION

Ecotoxicological Information

No ecological testing has been done on this product.

13. DISPOSAL CONSIDERATIONS

Disposal methods : Incineration is the recommended method of disposal observing all local, state, and federal regulations. Note: Chemical additions to, processing of, or otherwise altering this material may make this waste management information incomplete, inaccurate, or otherwise inappropriate. Furthermore, state and local waste disposal requirements may be more restrictive or otherwise different from federal laws and regulations.

14. TRANSPORT INFORMATION

Waste treatment methods

Waste treatment methods : Do not discharge to public wastewater systems without permit of pollution control authorities. No discharge to surface waters is allowed without an NPDES permit.

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Do not allow the product to be released into the environment.

15. REGULATORY INFORMATION

U.S. Federal regulations : All chemical substances in this product are listed in the EPA (Environment Protection Agency) TSCA (Toxic Substances Control Act) Inventory
All the constituents of this preparation are registered in the EINECS inventory or in the ELINCS list.

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Not listed

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : Immediate (acute) health hazard
Delayed (chronic) health hazard

State regulations

Lithium hydroxide monohydrate (1310-66-3)
U.S. - New Jersey - Right to Know Hazardous Substance List
Molybdenum(IV) sulfide (1317-33-5)
U.S. - Massachusetts - Right To Know List
Distillates, petroleum, hydrotreated light naphthenic (64742-53-6)
U.S. - Massachusetts - Right To Know List

California Prop. 65

Dibutyl phthalate (84-74-2) < 1 ppb				
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
No	Yes	Yes	Yes	

Limestone (1317-65-3)
U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List

Distillates, petroleum, hydrotreated light naphthenic (64742-53-6)
U.S. - Massachusetts - Right To Know List

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Ingredient name	List name	Status
Not listed.		

Montreal Protocol (Annexes A, B, C, E)

Ingredient name	List name	Status
Not listed.		

Stockholm Convention on Persistent Organic Pollutants

Ingredient name	List name	Status
Not listed.		

Rotterdam Convention on Prior Inform Consent (PIC)

Ingredient name	List name	Status
Not listed.		

UNECE Aarhus Protocol on POPs and Heavy Metals

Ingredient name	List name	Status
Not listed.		

16. OTHER INFORMATION

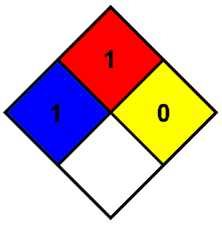
HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS)

HEALTH = 1 FIRE = 1 REACTIVITY = 0 PP = B

Rating: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Extreme

History

Indication of changes	:	Revision 1.0: New SDS Created.
Date of issue mm/dd/yyyy	:	10/27/2014
Prepared by	:	US Lubricants
NFPA health hazard	:	1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.
NFPA fire hazard	:	1 - Must be preheated before ignition can occur.
NFPA reactivity	:	0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



HMIS III Rating

Health	:	1*
Flammability	:	1
Physical	:	0
Personal Protection	:	

Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet