

Safety Data Sheet

Issuing Date 05/27/2015 Version 1

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

Product number 7012M

Product identifier Lubri-Moly Chain & Cable (Aerosol)

Company information The Lubri-Loy Comany

150 Enterprise Dr. Wentzville, MO 63385

Company phone General Assistance (636) 561-5007

Emergency telephone US Chemtrec: 1-800-424-9300

Recommended useLubricantRecommended restrictionsNone known.

2. HAZARDS IDENTIFICATION

Physical hazardsFlammable aerosolsCategory 1Health hazardsSensitization, skinCategory 1CarcinogenicityCategory 2

Specific target organ toxicity, repeated Category 1

exposure

Environmental hazards Not classified.

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Extremely flammable aerosol. May cause an allergic skin reaction. Suspected of causing cancer.

Causes damage to organs through prolonged or repeated exposure.

Precautionary statement

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Do not breathe gas. Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. Wear protective

gloves/protective clothing/eye protection/face protection.

Response If on skin: Wash with plenty of water. If exposed or concerned: Get medical advice/attention.

Specific treatment (see this label). If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

Storage Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Disposal Not available.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

| Chemical name | Common name and synonyms | CAS number | % |
|---------------|--------------------------|------------|---------|
| Propane | | 74-98-6 | 10 - 20 |

| Chemical name | Common name and synonyms | and synonyms CAS number | |
|--|--------------------------|-------------------------|----------|
| Mineral Spirits | | 8052-41-3 | 2.5 - 10 |
| Cocoyl Diethanolamide | | 68603-42-9 | 1 - 2.5 |
| Solvent Naphtha (Petroleum), Medium Aliphatic | | 64742-88-7 | 1 - 2.5 |
| Diethanolamine | | 111-42-2 | 0.1 - 1 |
| Other components below reportable lev | rels | | 60 - 80 |

^{*}Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Take off immediately all contaminated clothing. Wash off with soap and plenty of water. In case of Skin contact

eczema or other skin disorders: Seek medical attention and take along these instructions. Launder

contaminated clothing before reuse.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eve contact

present and easy to do. Get medical attention if irritation develops and persists.

Rinse mouth. Get medical attention if symptoms occur. Ingestion

Most important symptoms/effects, acute and

delayed

Indication of immediate treatment needed

medical attention and special

General information

Dermatitis. Rash. Direct contact with eyes may cause temporary irritation. May cause an allergic skin reaction. Prolonged exposure may cause chronic effects.

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

Take off all contaminated clothing immediately. IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Unsuitable extinguishing media

Specific hazards arising from the chemical

Special protective equipment and precautions for firefighters

Fire-fighting

equipment/instructions

Specific methods

General fire hazards

Alcohol resistant foam. Water fog. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose

holder or monitor nozzles, if possible. If not, withdraw and let fire burn out. Use standard firefighting procedures and consider the hazards of other involved materials. Move

containers from fire area if you can do so without risk. In the event of fire and/or explosion do not breathe fumes.

Extremely flammable aerosol.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe gas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up Refer to attached safety data sheets and/or instructions for use. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Use water spray to reduce vapors or divert vapor cloud drift. Isolate area until gas has dispersed. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.

Never return spills in original containers for re-use.

7. HANDLING AND STORAGE

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not re-use empty containers. Do not breathe gas. Do not get in eyes, on skin, on clothing. Avoid contact with eyes, skin, and clothing. When using, do not eat, drink or smoke. Use only outdoors or in a well-ventilated area. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices. Wash contaminated clothing before reuse.

Conditions for safe storage, including any incompatibilities

Level 3 Aerosol.

Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Refrigeration recommended. Store away from incompatible materials (see Section 10 of the SDS). Level 3 Aerosol.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits

| US. OSHA Table Z-1 | Limits for Air (| Contaminants | (29 CFR | (1910.1000) |
|--------------------|------------------|--------------|---------|--------------|
|--------------------|------------------|--------------|---------|--------------|

| Components | Туре | Value |
|---|------|-----------------------------------|
| Mineral Spirits (CAS 8052-41-3) | PEL | 2900 mg/m3 |
| Propane (CAS 74-98-6) | PEL | 500 ppm 1800 mg/m3 1000 ppm |
| US. ACGIH Threshold Limit Values Components | Туре | Value Form |

| Diethanolamine (CAS | TWA | 1 mg/m3 | Inhalable fraction and |
|----------------------|-----|---------|------------------------|
| 111-42-2) | | | vapor. |
| Mineral Spirits (CAS | TWA | 100 ppm | |

8052-41-3)

| US. NIOSH: Pocket Guide to Chemical Hazards | | | | |
|---|------|----------|--|--|
| Components | Туре | Value | | |
| Diethanolamine (CAS 111-42-2) | TWA | 15 mg/m3 | | |
| 12 2) | | mag 8 | | |

| Mineral Spirits (CAS 8052-41-3) | Ceiling | 1800 mg/m3 |
|------------------------------------|---------|------------|
| , | TWA | 350 mg/m3 |
| Propane (CAS 74-98-6) | TWA | 1800 mg/m3 |
| | | 1000 ppm |

Biological limit values

No biological exposure limits noted for the ingredient(s).

Exposure guidelines

US - California OELs: Skin designation

Diethanolamine (CAS 111-42-2) Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

Diethanolamine (CAS 111-42-2) Can be absorbed through the skin.

Appropriate engineering controls

Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Eye/face protection If contact is likely, safety glasses with side shields are recommended. Hand protection

Wear appropriate chemical resistant gloves.

Skin protection

Other

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Skin protection

Respiratory protection

If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an

air-supplied respirator.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Viscous. Liquid.

Physical state Liquid.
Form Aerosol.
Color Black.
Odor Solvent.
Odor threshold Not available.

pH Not applicable estimated

Melting point/freezing point

Initial boiling point and boiling

range

-43.78 °F (-42.1 °C) estimated

Flash point -156.0 °F (-104.4 °C) Propellant estimated

Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower

2.2 % estimated

(%)

Flammability limit - upper

(%)

9.5 % estimated

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure 80 - 90 psig @ 70F estimated

Vapor density Not available.

Relative density Not available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.Viscosity50 - 150 cP

Other information

Specific gravity 0.89 - 0.905 estimated

10. STABILITY AND REACTIVITY

ReactivityThe product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use. Hazardous polymerization does not

occur.

Conditions to avoid Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the

flash point. Contact with incompatible materials.

Incompatible materials

Hazardous decomposition products

Strong oxidizing agents. Fluorine. Chlorine. Nitrates. No hazardous decomposition products are known.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Ingestion Not available.

Inhalation May cause damage to organs through prolonged or repeated exposure by inhalation.

Skin contact Harmful in contact with skin. May cause an allergic skin reaction.

Eye contact Direct contact with eyes may cause temporary irritation.

Symptoms related to the physical, chemical and toxicological characteristics

If aspirated into lungs during swallowing or vomiting, may cause chemical pneumonia, pulmonary injury or death. Dermatitis. Rash. Direct contact with eyes may cause temporary irritation. May

cause an allergic skin reaction.

Information on toxicological effects

Acute toxicity Harmful in contact with skin. May cause an allergic skin reaction.

Product Species Test Results

M1 MOLY CHAIN & CABLE LUBRICANT (CAS Mixture)

Acute

Dermal

LD50 Rat 2535 mg/kg

Inhalation

LC50 Rat 3 mg/l/4h

Oral

LD50 Rat

Components Species Test Results

Calcium Sulfonate, Particulate (CAS 61789-86-4)

Acute

Dermal

LD50 Rabbit > 2000 mg/kg, 24 Hours

Rat > 2000 mg/kg, 24 Hours

Inhalation

LC50 Rat > 1.9 mg/l, 4 Hours

Oral

LD50 Rat 10000 - 20000 mg/kg

Diethanolamine (CAS 111-42-2)

Acute

Oral

LD50 Rat 1100 mg/kg

Propane (CAS 74-98-6)

Acute

Inhalation

LC50 Mouse 1237 mg/l, 120 Minutes

52 %, 120 Minutes

Rat 1355 mg/l

658 mg/l/4h

Solvent Naphtha (Petroleum), Medium Aliphatic (CAS 64742-88-7)

Acute

Dermal

LD50 Rabbit > 2000 mg/kg

> 2000 mg/kg, 24 Hours

| Components | Species | Test Results |
|------------|---------|---------------------|
| Inhalation | | |
| LC50 | Cat | > 6.4 mg/l, 6 Hours |
| | Rat | > 7.5 mg/l, 6 Hours |
| | | > 4.3 mg/l, 4 Hours |
| | | > 0.1 mg/l, 8 Hours |
| Oral | | |
| LD50 | Rat | > 5000 mg/kg |

^{*} Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation. **Serious eye damage/eye** Direct contact with eyes may cause temporary irritation.

irritation

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization May cause an allergic skin reaction.

Germ cell mutagenicityNo data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity Suspected of causing cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity

Cocoyl Diethanolamide (CAS 68603-42-9)

Diethanolamine (CAS 111-42-2)

2B Possibly carcinogenic to humans.

2B Possibly carcinogenic to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicityThis product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Respiratory system. Skin. Kidneys. Central nervous system. Eyes. Lungs. Causes damage to

organs through prolonged or repeated exposure.

Aspiration hazard Not an aspiration hazard. Not likely, due to the form of the product.

Chronic effects Prolonged exposure may cause chronic effects. Causes damage to organs through prolonged or

repeated exposure.

12. ECOLOGICAL INFORMATION

| | | 2. ECOLOGICAL INFORMATION | |
|-----------------------|--------------------|---|-------------------------|
| otoxicity | Harmful to | o aquatic life with long lasting effects. | |
| Product | | Species | Test Results |
| M1 MOLY CHAIN & C | ABLE LUBRICANT | (CAS Mixture) | |
| Aquatic | | | |
| Algae | IC50 | Algae | 2975 mg/L, 72 Hours |
| Crustacea | EC50 | Daphnia | 1001 mg/L, 48 Hours |
| Fish | LC50 | Fish | 209 mg/L, 96 Hours |
| Components | | Species | Test Results |
| Diethanolamine (CAS | 111-42-2) | | |
| Aquatic | | | |
| Algae | IC50 | Algae | 7.8 mg/L, 72 Hours |
| Crustacea | EC50 | Daphnia | 55 mg/L, 48 Hours |
| Fish | LC50 | Fathead minnow (Pimephales promelas) | 100 mg/l, 96 hours |
| Solvent Naphtha (Petr | roleum), Medium Al | iphatic (CAS 64742-88-7) | |
| Aquatic | | | |
| Crustacea | EC50 | Daphnia | 100.0001 mg/L, 48 Hours |

^{*} Estimates for product may be based on additional component data not shown.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available. Partition coefficient n-octanol / water (log Kow)

-1.43 Diethanolamine Mineral Spirits 3.16 - 7.15Propane 2.36

No data available. Mobility in soil

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation Other adverse effects

potential, endocrine disruption, global warming potential) are expected from this component.

13. DISPOSAL CONSIDERATIONS

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents **Disposal instructions**

under pressure. Do not puncture, incinerate or crush. Dispose of contents/container in accordance

with local/regional/national/international regulations.

Dispose in accordance with all applicable regulations. Local disposal regulations

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Empty containers should be taken to an approved waste handling site for recycling or disposal. Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Do not re-use empty containers.

14. TRANSPORT INFORMATION

DOT

UN1950 **UN** number

UN proper shipping name

Transport hazard class(es)

Aerosols, flammable, (each not exceeding 1 L capacity)

Class 2.1 Subsidiary risk 2.1 Label(s)

Packing group Not applicable.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions N82 306 Packaging exceptions Packaging non bulk None Packaging bulk None

This product meets the exception requirements of section 173.306 as a limited quantity and may be shipped as a limited quantity. Until 12/31/2020, the "Consumer Commodity - ORM-D" marking may still be used in place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12/31/20 and may be used now in place of the "Consumer Commodity ORM-D" marking and both may be displayed concurrently.

IATA

UN number UN1950

Aerosols, flammable **UN** proper shipping name

Transport hazard class(es)

Class 2.1 Subsidiary risk Label(s) 2.1

Packing group Not applicable.

Environmental hazards No. 10L **ERG Code**

Other information

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Passenger and cargo aircraft

Allowed.

Cargo aircraft only

Allowed.

Packaging Exceptions

LTD QTY

IMDG

UN1950 **UN** number **AEROSOLS** UN proper shipping name

Transport hazard class(es)

Class 2.1 Subsidiary risk -Label(s) 2.1

Packing group Not applicable.

Environmental hazards

Marine pollutant No. EmS F-D, S-U

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Packaging Exceptions LTD QTY

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78 and

the IBC Code

DOT



IATA; IMDG



15. REGULATORY INFORMATION

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Diethanolamine (CAS 111-42-2) Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No

chemical

SARA 313 (TRI reporting)

| Chemical name | CAS number | % by wt. | |
|-------------------------|------------|------------|--|
| 1,2,4-Trimethyl Benzene | 95-63-6 | 0.1 - 1 | |
| Diethanolamine | 111-42-2 | 0.1 - 1 | |
| Ethyl Benzene | 100-41-4 | 0.01 - 0.1 | |

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Diethanolamine (CAS 111-42-2)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Propane (CAS 74-98-6)

Safe Drinking Water Act

Not regulated.

(SDWA)

US state regulations

US. Massachusetts RTK - Substance List

Diethanolamine (CAS 111-42-2) Mineral Spirits (CAS 8052-41-3) Propane (CAS 74-98-6)

US. New Jersey Worker and Community Right-to-Know Act

Diethanolamine (CAS 111-42-2) Mineral Spirits (CAS 8052-41-3)

Propane (CAS 74-98-6)

US. Pennsylvania Worker and Community Right-to-Know Law

Diethanolamine (CAS 111-42-2) Mineral Spirits (CAS 8052-41-3) Propane (CAS 74-98-6)

US. Rhode Island RTK

Diethanolamine (CAS 111-42-2) Propane (CAS 74-98-6)

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Cocoyl Diethanolamide (CAS 68603-42-9)

Diethanolamine (CAS 111-42-2)

Ethyl Benzene (CAS 100-41-4)

Listed: June 22, 2012

Listed: June 22, 2012

Listed: June 11, 2004

International Inventories

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|-----------------------------|--|------------------------|
| Australia | Australian Inventory of Chemical Substances (AICS) | No |
| Canada | Domestic Substances List (DSL) | Yes |
| Canada | Non-Domestic Substances List (NDSL) | No |
| China | Inventory of Existing Chemical Substances in China (IECSC) | No |
| Europe | European Inventory of Existing Commercial Chemical Substances (EINECS) | Yes |
| Europe | European List of Notified Chemical Substances (ELINCS) | No |
| Japan | Inventory of Existing and New Chemical Substances (ENCS) | No |
| Korea | Existing Chemicals List (ECL) | No |
| New Zealand | New Zealand Inventory | No |
| Philippines | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | No |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes |

^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. OTHER INFORMATION

Issue date 05-27-2015

Version # 01

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

Disclaimer

The information provided in this 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 SDS