MATERIAL SAFTY DATA SHEET

MOTORBIKE CHAIN LUBE

I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: MOTORBIKE CHAIN LUBE
Product Code : BOD # 192
Manufacturer Name: Ding Oil International Trade Co., Ltd Address: No.100-61, Fengren Rd., Fengshan Dist., Kaohsiung City 830, Taiwan Telephone Number: +886-7-740-5126
Emergency Telephone Number : +886-7-740-5126 Fax Number : +886-7-740-5127

II. HAZARDS IDENTIFICATION

Physical hazards	Flammable aerosols	Category 1
Health hazards	Acute toxicity, oral	Category 4
	Acute toxicity, inhalation	Category 4
	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2A
	Carcinogenicity	Category 2
	Reproductive toxicity (the unborn child)	Category 2
	Specific target organ toxicity, single exposure	Category 3 narcotic effects
	Specific target organ toxicity, repeated exposure	Category 2
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 2
	Hazardous to the aquatic environment, long-term hazard	Category 2
OSHA defined hazards	Not classified.	
Label elements		
Signal word	Danger	
Hazard statement	Extremely flammable aerosol. Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. Harmful if inhaled. Harmful if inhaled. May cause drowsiness or dizziness. Suspected of causing cancer. Suspected of damaging the unborn child. May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life. Toxic to aquatic life with long lasting effects.	

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 breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.
Response	If swallowed: Call a poison center/doctor if you feel unwell. If on skin: Wash with plenty of water. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. Rinse mouth. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse. Collect spillage.
Storage	Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	3% of the mixture consists of component(s) of unknown acute oral toxicity. 3% of the mixture consists of component(s) of unknown acute inhalation toxicity. % of the mixture consists of component(s) of unknown acute inhalation toxicity. 65.74% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 65.74% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

III. COMPOSITION, INFORMATION ON INGREDIENT

Mixtures

Chemical Properties:

Ingredients	Concentration or concentration range (%)	TLV value	CAS No.
Hazards element			108-88-3
PARAFINIC BASE OIL	70%	50ppm	
LITHIUM SOAP	20%	30ppm	
HIGH MOLE CULAR WEIGNTYMER	10%	20ppm	
Commercial Propane	100%	100ppm	

IV. FIRST AID MEASURES

➢ Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Call a POISON CENTER or doctor/physician if you feel unwell.
➢ Skin contact: Wash off with soap and water. Get medical attention if irritation develops and persists.
➢ Eye contact: Rinse with water. Get medical attention if irritation develops and persists.
➢ Ingestion: Rinse mouth. Get medical attention if symptoms occur.
➢ Most important symptoms/effects, acute and delayed: May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic effects.
➢ Indication of immediate medical attention and special treatment needed: Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
➢ General information: 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. Show this safety data sheet to the doctor in attendance.

V.FIRE FIGHTING MEASURES

➢ Suitable extinguishing media: Powder. Foam. Carbon dioxide (CO_2).
➢ Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.
➢ Specific hazards arising from the chemical: Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.
➢ Special protective equipment and precautions for firefighters: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
➢ Firefighting equipment/instructions: 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.
➢ Specific methods: Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Use water spray to cool unopened containers. In the event of fire and/or explosion do not breathe fumes..
➢ General fire hazards: Extremely flammable aerosol.

VI. ACCIDENTAL RELEASE MEASURE

- Personal precautions, protective equipment and emergency procedures: Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. 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. Keep combustibles (wood, paper, oil, etc.) away from spilled material. Isolate area until gas has dispersed. This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.
  Small Spills: 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.
- Environmental precautions: Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.

VII. 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. Do not re-use empty containers. Do not breathe mist or vapor. Do not breathe gas. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.
- Conditions for safe storage, including any incompatibilities: 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. Store in a well-ventilated place. Keep out of the reach of children. Store away from incompatible materials (see Section 10 of the SDS).

VIII. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering control:

1. Use a ventilation system that does not generate sparks and ground.
2. Exhaust port directly to the outside, and take important measures to protect the environment.
3. When the substance is used in large quantities, it may be necessary for the local exhaust unit and the process to be closed.
4. Provide fresh air to replenish the air from the exhaust system.

Eight hours a day Average allowable concentration **TWA**	Short time Average allowable concentration **STEL**	Maximum allowable concentration **CEILING**	Biological indicators **BEIs**
100ppm (skin)	**125ppm (skin)**	**--**	Blood in toluene 0.05mg / L urinary o-cresol 0.5mg / L (B) urine Per gram creatinine containing hippuric acid 1.6g (B, Ns)

Personal protective equipment:
Respiratory protection:
1. 500ppm or less: Contains organic steam filter tank chemical filter tank type, power type air purification type, gas supply, self-contained breathing apparatus.
2. Unknown concentration: positive pressure self-contained breathing apparatus, positive pressure full-type air supply respiratory protection with auxiliary pressure self-contained breathing apparatus.
3. Escape: gas mask containing organic vapor cans, escape type self-contained breathing apparatus Hand protection: 1. Anti-seepage glove material to polyvinyl chloride, **Teflon**, **Viton**, **4H**, **Barricade**, **Responder**, etc. is better. Skin and body protection: **1**. One-piece protective clothing **2.** Work shoes **3.** Work area with shower / eye punch equipment.

Health measures: **1**. Work as soon as possible after taking off the contaminated clothing, washed before they can wear or discard, and to inform the health hazards of laundry personnel. **2**. Smoking or eating is strictly prohibited in the workplace. **3**. After handling this material, wash hands thoroughly. **4**. Keep the workplace clean.

IX. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: No color and clear liquid	Odor: Aromatic taste

Olfactory threshold: 0.16-37 ppm (detection), 1.9-69 ppm (perceived)	Pouring point: -95
pH: --	Boiling point / Boiling range: >200 ℃ up
Flammability (solid, gas): --	Flash point: >200 ℃
Decomposition temperature:-	Test method: closed cup
Autoignition temperature: >450 ℃ (ASTM E659)	Explosion limits: --
Vapor pressure: -(℃)	Vapor density: -(15℃)
Density: 0.8-0.9 (water = 1)	Solubility: -(15℃) (water)
Octanol / water partition coefficient (log Kow): --	Volatilization rate: --

X. STABILITY AND REACTIVITY

Reactivity: The 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.
Conditions to avoid: Contact with incompatible materials.
Incompatible materials: Strong acids. Strong oxidizing agents. Halogens.
Hazardous decomposition products: No hazardous decomposition products are known.

XI. TOXICOLOGICAL INFORMATION

Exposure route: skin, inhalation, ingestion, eyes.

Symptoms: irritation, drowsiness, headache, fatigue, dizziness, vertigo, numbness, nausea, mental confusion, uncoordinated action, inhibition of the central nervous system, unconscious, dermatitis.

Acute toxicity:

Benzene: Skin: 1. Early exposure may cause mild irritation, long-term exposure may lead to dermatitis (dry skin, red). Inhalation:

1. Vapor concentration of about 50ppm: Slightly lethargy and headache; 50-100ppm: irritation of the nose, throat and respiratory tract; about 100ppm: cause fatigue and dizziness; more than 200ppm: cause symptoms similar to drunkenness, vertigo, numbness and mild nausea;
2. More than 500ppm cause mental confusion and uncoordinated; higher concentration (about 10000ppm) is further inhibited the central nervous system, will lead to unconscious and death; more severe exposure may cause kidney failure.

1. Ingestion and absorption, resulting in inhibition of central nervous system, symptoms such as inhalation.
2. May cause inhalation, which is ingestion or vomiting when the substance inhaled into the lungs, may lead to lung irritation, lung tissue damage and death.

Eye contact:

1. Short exposure (3-5 minutes) Exposure to 300ppm steam or prolonged (6-7 hours) Exposure to 100ppm can cause slight irritation.

LD50 (test animals, absorption pathway): <870 mg / kg (rats, swallowed)

LC50 (test animals, absorption pathway): 6000 ppm / 6H (rat, inhalation)

Chronic or long-term toxicity:

Benzene:

1. Nervous system: chronic central nervous system damage, memory loss, sleep disturbed, willpower is not concentrated and action uncoordinated.
2. Long-term exposure may affect hearing.
3. Long-term exposure to 200ppm below no obvious kidney damage; 500ppm or less without liver effects.
4. Cause dermatitis (skin red, itchy, dry).

1500mg / m3 / 24H (pregnant 1-8 days of female rats, inhalation) caused by embryo poisoning and abnormal development. IARC listed it as Group 3: can not be judged as human carcinogenicity.

XII. ECOLOGICAL INFORMATION

Ecotoxicity: LC50 (fish): 7.3-22.8 mg / l / 96H

EC50 (aquatic invertebrate): - Bioconcentration factor (BCF): 1.67-380

Persistence and degradability:

Benzene

1. When toluene is released into the air, it can react with the hydroxylation of the photochemical reaction to quickly break down.
2. The half-life range can range from three hours to one day. But the material can be cleared by rain.
3. In a variety of different standard biodegradability tests found that toluene can be quickly decomposed.
4. Toluene in the fish and water invertebrates in vivo no significant bioconcentration. Half-life (air): 10 ~ 104 hours Half-life (water surface): 96-528 hours Half-life (groundwater): 168 ~ 672 hours Half-life (soil): 96 ~ 528 hours.

Bioaccumulation: Toluene and the body will accumulate, most will be discharged by breathing, a small part of the oxidation of carbon dioxide through the discharge.

Mobility in the soil: release into the soil, is expected to be biodegradable and volatile from the soil surface.

Other adverse effects: -

XIII. DISPOSAL CONSIDERATIONS

Disposal methods:

1. Refer to the relevant regulations.
2. Store the waste to be treated in accordance with the storage conditions.
3. Can be treated with specific incineration or sanitary landf

XIV. TRANSPORT INFORMATION

UN number: 1011

UN Transport Name: IATA / ICAO Rating: No classification IMDG Rating: 2.1 (International Maritime Organization)
Classification of transport hazards: --
Packing category: II
Marine pollutants (yes / no): No
Special shipping methods and precautions: -

XV. REGULATORY INFORMATION

Applicable laws and regulations:

1. Labor safety and health facilities rules
2. Hazardous and harmful substances labeling and general rules
3. Guidelines for the Prevention of Organic Solvent Poisoning
4. Labor work environment Airborne concentrations of harmful substances in the air
5. Road traffic safety rules
6. Waste disposal and disposal of business waste
7. Public dangerous goods and flammable high - pressure gas setting standards and safety management practices

XVI. OTHER INFORMATION

Reference Literatures	1. CHEMINFO database, CCINFO disc, 2005-3 2. HAZARDTEXT database, TOMESPLUS CD-ROM, Vol.65, 2005 3. RTECS Library, TOMESPLUS CD-ROM, Vol.65, 2005 4. HSDB Database, TOMESPLUS CD-ROM, Vol.65, 2005 5. Chinese Museum of Hazardous Chemicals, EPD 6. ChemWatch Database, 2005-1	
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