

MATERIAL SAFETY DATA SHEET




MOTORBIKE CHAIN CLEANER

I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: MOTORBIKE CHAIN CLEANER
Product Code : BOD # 194
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

Ingredient	CAS #	Weight Percent	US Hazcom 2012/ GHS Classification
Non-hazardous Ingredients	Mixture	Balance	Not Hazardous
2-(2-Butoxyethoxy)ethanol (Glycol Ether DB)	112-34-5	5-10%	Eye Irritant Category 2
Isopropyl Alcohol (Isopropanol)	67-63-0	1-5%	Flammable Liquid Category 2 Eye Irritant Category 2 Specific Target Organ Toxicity Single Exposure Category 3 (nervous system effects)

Liquefied Petroleum Gas (propane, n-butane) or Isobutane propellant	68476-86-875-28-5	1-5%	Flammable Gas Category 1 Gas Under Pressure, Compressed Gas
Surfactants	Proprietary	<2%	Eye Damage Category 1 Aquatic Acute Toxicity Category 2

Note: The specific chemical identity and exact percentages are a trade secret.



IV. FIRST AID MEASURES

<p>➤ 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.</p>
<p>➤ Skin contact: Wash off with soap and water. Get medical attention if irritation develops and persists.</p>
<p>➤ Eye contact: Rinse with water. Get medical attention if irritation develops and persists.</p>
<p>➤ Ingestion: Rinse mouth. Get medical attention if symptoms occur.</p>
<p>➤ 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.</p>
<p>➤ 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.</p>
<p>➤ 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.</p>

V. FIRE FIGHTING MEASURES

<p>➤ Suitable (and unsuitable) Extinguishing Media: Use water fog, dry chemical, carbon dioxide or foam.</p> <p>➤ Specific Hazards Arising from the Chemical: Contents under pressure. Keep away from ignition sources and open flames. Exposure of containers to extreme heat and flames can cause them to rupture often with violent force. Concentrate is a flammable liquid. Vapors are heavier than air and may travel to remote ignition sources and flash back. A vapor and air mixture can create an explosion hazard in confined spaces.</p> <p>➤ Special Protective Equipment and Precautions for Fire-Fighters: Firefighters should always wear positive pressure self-contained breathing apparatus and full protective clothing. Cool fire-exposed containers with water. Use shielding to protect against bursting containers.</p>
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VI. ACCIDENTAL RELEASE MEASURE

<p>➤ Personal Precautions, Protective Equipment and Emergency Procedures: Remove personnel from general area. Wear appropriate protective clothing (see Section 8). Eliminate all sources of ignition and ventilate area.</p>

- Methods and Materials for Containment/Cleanup: Leaking cans should be placed in a plastic bag or open pail until the pressure has dissipated. Contain and collect liquid with an inert absorbent and place in a container for disposal. Clean spill area thoroughly. Report spills to authorities as required.

VII. HANDLING AND STORAGE

- Precautions for Safe Handling: Avoid contact with eyes. Avoid prolonged contact with skin. Avoid breathing vapors or aerosols. Use only with adequate ventilation. Keep away from heat, sparks, pilot lights, hot surfaces and open flames. Unplug electrical tools, motors and appliances before spraying or bringing the can near any source of electricity. Electricity can burn a hole in the can and cause contents to burst into flames. To avoid serious burn injury, do not let the can touch battery terminals, electrical connections on motors or appliances or any other source of electricity. Wash thoroughly with soap and water after handling. Keep containers closed when not in use. Keep out of the reach of children. Do not puncture, crush or incinerate containers, even when empty.
- Conditions for Safe Storage: Store in a cool, well-ventilated area, away from incompatible materials and heat, sparks or open flame. Do not store in direct sunlight or above 120°F. U.F.C (NFPA 30B) Level 1 Aerosol.

VIII. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Chemical	Occupational Exposure Limits
Isopropanol	200 ppm TWA, 400 ppm STEL ACGIH-TLV 400 ppm TWA OSHA PEL
2-(2-Butoxyethoxy) ethanol	10 ppm TWA ACGIH TLV (inhalable fraction and vapor)
Propane	1000 ppm TWA OSHA PEL
n-Butane	1000 ppm STEL ACGIH TLV
Isobutane	1000 ppm STEL ACGIH TLV
Surfactants	None Established
Non-hazardous Ingredients	None Established

The Following Controls are Recommended for Normal Consumer Use of this Product Appropriate
Engineering Controls: Use in a well-ventilated area.

Personal Protection:

Eye Protection: Avoid eye contact. Always spray away from your face.

Skin Protection: Avoid prolonged skin contact. Chemical resistant gloves recommended for operations where skin contact is likely.

Respiratory Protection: None needed for normal use with adequate ventilation.

For Bulk Processing or Workplace Use the Following Controls are Recommended

Appropriate Engineering Controls: Use adequate general and local exhaust ventilation to maintain exposure levels below that occupational exposure limits.

Personal Protection:

Eye Protection: Safety goggles recommended where eye contact is possible.

Skin Protection: Wear chemical resistant gloves.

Respiratory Protection: None required if ventilation is adequate. If the occupational exposure limits are exceeded, wear a NIOSH approved respirator. Respirator selection and use should be based on contaminant type, form and concentration. Follow OSHA 1910.134, ANSI Z88.2 and good Industrial Hygiene practice.

Work/Hygiene Practices: Wash with soap and water after handling.

IX. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear colorless liquid	Flammable Limits: (Solvent Portion)	LEL: 1.8% UEL: 9.5% (propellant)
Odor:	Citrus odor	Vapor Pressure:	Not Determined
Odor Threshold:	Not established	Vapor Density:	Not Determined
pH:	10.5-11.5	Relative Density:	1.0 kg/l (concentrate) 0.955 kg/L (with propellant)
Melting/Freezing Point	Not established	Solubilities:	Soluble in water
Boiling Point/Range:	212°F (100° C) (concentrate)	Partition Coefficient; n- octanol/water:	Not established
Flash Point:	<0°F (propellant) 59°F (15° C)(concentrate with propellant ASTM D3828/US 16CFR 1500.45) >212°F (100° C) (concentrate only)	Autoignition Temperature:	Not established
Evaporation Rate:	Not established	Decomposition Temperature:	Not established
Flammability (solid, gas)	Flammable Aerosol	Viscosity:	Not Determined
VOC:	6.5% (33.4 g/L)	Pour Point:	Not established

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

Symptoms of Overexposure: <ul style="list-style-type: none">➤ Inhalation: Excessive inhalation can cause headache, drowsiness, and nausea. Can cause irritation of respiratory tract. Intentional abuse may be harmful or fatal.➤ Skin Contact: Prolonged contact may cause defatting, dermatitis, and drying of the skin.➤ Eye Contact: May cause eye irritation with redness, tearing and blurred vision.➤ Ingestion: Swallowing may cause gastrointestinal irritation. Not expected to be acutely toxic.➤ Chronic Effects: 2-(2-butoxyethoxy) ethanol has caused effects on the liver and kidneys in studies with laboratory animals.➤ Carcinogen Status: None of the components are listed as a carcinogen or suspect carcinogen by IARC, NTP, ACGIH or OSHA.➤ Reproductive Toxicity: None of the components is considered a reproductive hazard. ➤ Numerical Measures of Toxicity: Acute Toxicity Estimates: Oral >5000 mg/kg; Dermal >2000 mg/kg. Surfactant: Oral rat LD50: 412-2394 mg/kg, Dermal rabbit LD50 1127-2395 mg/kg, Inhalation rat LC50 1.06 mg/L/4 hr➤ Isopropanol: Inhalation rat LC50 16,000 ppm/8 hr, Oral rat LD50 5045 mg/kg, Dermal rabbit LD50 12,800 mg/kg➤ 2-(2-Butoxyethoxy)ethanol: Oral rat LD50: 5660 mg/kg; Dermal rabbit LD50: 4000 mg/kg➤ Liquefied Petroleum Gas: No toxicity data is available➤ Isobutane: Inhalation rat LC50 570000 ppm/15 min.
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XII. ECOLOGICAL INFORMATION

Ecotoxicity: Surfactant: 96 hr LC50 Fathead minnow 3.2-3.6 mg/L (static test); 48 hr EC50 Daphnia magna 7.3 mg/L (static test, immobilization) Isopropanol: 96 hr LC50 Fathead minnow 9490 mg/L; 48 hr EC50 Daphnia magna 13299 mg/L. 2-(2-Butoxyethoxy)ethanol: 96 hr LC50 Bluegill 1300 mg/L (static); 48 hr EC50 Daphnia magna >100 mg/L Persistence and Degradability: Solvents and surfactants are readily biodegradable. Bioaccumulative Potential: Bioaccumulation is not expected based on an assessment of the ingredients.
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Mobility in Soil: No data available Other Adverse Effects: None known
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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 landfill

XIV. TRANSPORT INFORMATION

UN number: 1950
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): Yes
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	<ol style="list-style-type: none">1. CHEMINFO database, CCINFO disc, 2005-32. HAZARDTEXT database, TOMESPLUS CD-ROM, Vol.65, 20053. RTECS Library, TOMESPLUS CD-ROM, Vol.65, 20054. HSDB Database, TOMESPLUS CD-ROM, Vol.65, 20055. Chinese Museum of Hazardous Chemicals, EPD6. ChemWatch Database, 2005-1
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