

### 1. Chemical product and company identification

Product name	MOLY-DEE TAPPING FLUID
MSDS#	05086
Code	05086-BW, BT
Product use	Lubricant
Manufacturer	Castrol Industrial North America, Inc. 150 W. Warrenville Road Naperville, IL 60563
Supplier	Castrol Industrial North America, Inc. 150 W. Warrenville Road Naperville, IL 60563 Product Information: 1-800-621-2661
EMERGENCY SPILL INFORMATION:	1 (800) 424-9300 CHEMTREC (USA)

## 2. Composition/information on ingredients

Ingredient name	CAS #	% by weight
Alkanes, (C10-13), chloro Distillates (petroleum), hydrotreated heavy naphthenic (Highly refined mineral oil)	61788-76-9 64742-52-5	35 - 40 10 - 15
Distillates (petroleum), solvent-refined heavy paraffinic (Highly refined mineral oil)	64741-88-4	1 - 5

### 3. Hazards identification

Physical state	Liquid.
Color	Green.
Emergency overview	WARNING!
	CAUSES EYE IRRITATION. MAY CAUSE SKIN IRRITATION. MAY CAUSE RESPIRATORY TRACT IRRITATION.
	Do not ingest. Do not get in eyes, on skin or clothing. In accordance with good industrial hygiene and safety work practices, airborne exposures should be controlled to the lowest extent practicable. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.
Routes of entry	Dermal contact. Eye contact. Inhalation. Ingestion.
Potential Health Effects	
Eyes	Causes eye irritation.
Skin	May cause skin irritation.
Inhalation	May cause respiratory tract irritation.
Ingestion	Ingestion may cause gastrointestinal irritation and diarrhea.

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#### 4. First aid measures

Eye Contact	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops.
Skin Contact	Immediately wash exposed skin with soap and water. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if irritation develops.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if irritation develops.
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.

### 5. Fire-fighting measures

Flammability of the product	
Flash point	154 °C (Open cup) Cleveland.
Products of combustion	These products are carbon oxides (CO, CO <sub>2</sub> ), halogenated compounds, hydrogen chloride, sulfur oxides (SO <sub>2</sub> , SO <sub>3</sub> ).
Unusual fire/explosion hazards	This material is not explosive as defined by established regulatory criteria.
	Non-explosive in presence of open flames, sparks and static discharge, of shocks, of heat.
Fire fighting media and instructions	In case of fire, use water fog, foam, dry chemicals, or carbon dioxide.
Protective clothing (fire)	Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

### 6. Accidental release measures

Personal Precautions	Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (See Section: "Exposure controls/personal protection"). Follow all fire fighting procedures (See Section: "Fire-fighting measures").
Environmental precautions and clean-up methods	If emergency personnel are unavailable, contain spilled material. For small spills add absorbent (soil may be used in the absence of other suitable materials) scoop up material and place in a sealed, liquid-proof container for disposal. For large spills dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal. Minimize contact of spilled material with soils to prevent runoff to surface waterways. See Section 13 for Waste Disposal Information.
Personal protection in case of a large spill	Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

### 7. Handling and storage

hazards.

Handling	Do not ingest. Do not get in eyes, on skin or on clothing. Avoid contact with skin and clothing. In accordance with good industrial hygiene and safety work practices, airborne exposures should be controlled to the lowest extent practicable. Use only with adequate ventilation. Wash thoroughly after handling.
Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area. Empty containers may contain harmful, flammable/combustible or explosive residue or vapors. Do not cut, grind, drill, weld, reuse or dispose of containers unless adequate precautions are taken against these

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### 8. Exposure controls/personal protection

# Occupational exposure limits

Ingredient name	Occupational exposure limits	
Alkanes, (C10-13), chloro Distillates (petroleum), hydrotre naphthenic (Highly refined mine Distillates (petroleum), solvent-i paraffinic (Highly refined minera	al oil) STEL: 10 mg/m <sup>3</sup> 15 minute(s). Form: Oil mist, mineral TWA: 5 mg/m <sup>3</sup> 8 hour(s). Form: Oil mist, mineral <b>OSHA (United States).</b> TWA: 5 mg/m <sup>3</sup> 8 hour(s). Form: Oil mist, mineral fined heavy <b>ACGIH (United States).</b>	
Control Measures	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits.	
Hygiene measures	Wash hands after handling compounds and before eating, smoking, using lavatory, and at the end of day.	
Personal protection		
Eyes	Avoid contact with eyes. Safety glasses with side shields.	
Skin and Body	Avoid contact with skin and clothing. Wear suitable protective clothing.	
Respiratory	Use only with adequate ventilation. In accordance with good industrial hygiene and safety work practices, airborne exposures should be controlled to the lowest extent practicable.	
Hands	Wear suitable gloves.	
	Not available.	



Consult local authorities for acceptable exposure limits.

## 9. Physical and chemical properties

Physical state	Liquid.
Odor	Hydrocarbon.
Color	Green.
Specific Gravity	1.04 to 1.06
Density	1050 kg/m³ (1.05 g/cm³) at 15°C
Solubility	Insoluble in water.
Viscosity	Kinematic: 100 to 120 mm²/s (100 to 120 cSt) at 40°C

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### 10. Stability and reactivity

Stability and Reactivity	The product is stable.
Conditions to avoid	None known.
Incompatibility with various substances	Reactive with oxidizing agents.
Hazardous Decomposition Products	These products are halogenated compounds, hydrogen chloride.
Hazardous polymerization	Will not occur.

### 11. Toxicological information

Chronic toxicity		
Carcinog effects	No component of this product at levels greater than 0.1% is identified as a car ACGIH or the International Agency for Research on Cancer (IARC). No compo product present at levels greater than 0.1% is identified as a carcinogen by the Toxicology Program (NTP) or the U.S. Occupational Safety and Health Act (O	onent of this U.S. National
Mutagen effects	No component of this product at levels greater than 0.1% is classified by estab criteria as a mutagen.	lished regulatory
Reprodu effects	No component of this product at levels greater than 0.1% is classified by estab criteria as a reproductive toxin.	lished regulatory
Teratoge effects	No component of this product at levels greater than 0.1% is classified by estab criteria as teratogenic or embryotoxic.	lished regulatory

### 12. Ecological information

**Ecotoxicity** No testing has been performed by the manufacturer.

### 13. Disposal considerations

Waste information	Waste must be disposed of in accordance with federal, state and local environmental control regulations.			
RCRA Waste Code(s)	USED OIL			
Remarks	No additional remark.			
Consult your local or regional authorities.				

#### 14. Transport information

#### International transport regulations

Regulatory Information	UN number	Proper shipping name	Class	Packing group	Label	Additional information	
DOT Classification	UN3082	Environmentally hazardous substance, liquid, n.o.s. (Alkanes, (C10-13), chloro). Marine pollutant	9			Marine pollutant Marine pollutant (P) Special provisions Not regulated (if shipped by land in non bulk packaging)	
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TDG Classification	UN3082	Environmentally hazardous substance, liquid, n.o.s Marine pollutant	9	111	<u>Marine pollutant</u> Marine pollutant (P)
IMDG Classification	UN3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S Marine pollutant	9	III	<u>Marine pollutant</u> Marine pollutant (P)
IATA Classification	Not regulated.	Not regulated.	Not regulated.	Not regulated.	 Not regulated.

## 15. Regulatory information

U.S. Federal regulations	US INVENTORY (TSCA): In compliance.				
	This product is not regulated under Section 302 of SARA and 40 CFR Part 355.				
	SARA 311/312 MSDS distribution - chemical inventory - hazard identification: MOLY-DEE TAPPING FLUID: Immediate (Acute) Health Hazard				
SARA 313					
	Product name	CAS number	Concentration		
Form R - Reporting requirements	Alkanes, (C10-13), chloro	61788-76-9	35		
Supplier notification	Alkanes, (C10-13), chloro	61788-76-9	35		
	CERCLA Sections 102a/103 Hazardous Substances (40 CF regulated under CERCLA Sections 103 and 107.	R Part 302.4):: Thi	s material is not		
State regulations	Massachusetts RTK:molybdenum sulfide; Refined paraffin wax New Jersey:molybdenum sulfide Pennsylvania RTK:Oils, Lard (generic environmental hazard); Refined paraffin wax (generic environmental hazard)				
Inventories	AUSTRALIAN INVENTORY (AICS): Not listed.				
	CANADA INVENTORY (DSL): In compliance.				
	CHINA INVENTORY (IECS): Not listed.				
	EC INVENTORY (EINECS/ELINCS): In compliance.				
	JAPAN INVENTORY (ENCS): Not listed.				
	KOREA INVENTORY (ECL): In compliance.				
	PHILIPPINE INVENTORY (PICCS): Not listed.				

### 16. Other information

Label Requirements

WARNING!

CAUSES EYE IRRITATION. MAY CAUSE SKIN IRRITATION. MAY CAUSE RESPIRATORY TRACT IRRITATION.

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HMIS® Rating :	Health 2 Flammability 1 Physical 0 Hazard Personal B protection	National Fire Protection Association (U.S.A.)	Health 2 Fire hazard Instability Specific hazard
Other special considerations	Research on Cancer (IAR supplier as severely proce stated that these distillates 1910.1200. Chlorinated not been tested or proven tested and show evidence	C), the petroleum distillates list ssed. Not all those listed in Sec do not require a carcinogen la l Paraffin The specific chlorina o cause adverse health effects of carcinogenicity in laboratory	gy of the International Agency for ed in Section II are classified by the stion II may be present. The supplier has bel as defined by OSHA 29 CFR ted paraffin included in this product has bel of the chlorinated paraffins have been animals via ingestion. No component listed as a carcinogen by IARC, NTP or
History			
Date of issue	03/01/2005.		
Date of previous issue	No Previous Validation.		
Prepared by	Product Stewardship		

#### Notice to reader

All reasonably practicable steps have been taken to ensure this data sheet and the health, safety and environmental information contained in it is accurate as of the date specified below. No warranty or representation, express or implied is made as to the accuracy or completeness of the data and information in this data sheet.

The data and advice given apply when the product is sold for the stated application or applications. You should not use the product other than for the stated application or applications without seeking advice from us.

It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. The BP Group shall not be responsible for any damage or injury resulting from use, other than the stated product use of the material, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the material. Purchasers of the product for supply to a third party for use at work, have a duty to take all necessary steps to ensure that any person handling or using the product is provided with the information in this sheet. Employers have a duty to tell employees and others who may be affected of any hazards described in this sheet and of any precautions that should be taken.

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