# **Material Safety Data Sheet**



# 1. Product and company identification

Product name Moly Dee CF Tapping Fluid

MSDS # 467723

Historic MSDS #: 05226-BE

Code 467723-US03

Product use Metalworking fluid - neat.

For specific application advice see appropriate Technical Data Sheet or consult our company

representative.

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: +1-877-641-1600

EMERGENCY SPILL INFORMATION:

1 (800) 424-9300 CHEMTREC (USA)

#### 2. Hazards identification

Physical state Liquid.

Color Gray.

Emergency overview CAUTION!

MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION.

POSSIBLE REPRODUCTIVE HAZARD - CONTAINS MATERIAL WHICH MAY CAUSE ADVERSE

REPRODUCTIVE EFFECTS, BASED ON ANIMAL DATA.

Prolonged or repeated contact can defat the skin and lead to irritation and/or dermatitis. Do not breathe vapor or mist. Do not get on skin or clothing. Avoid contact with eyes. Contains material which may impair fertility, based on animal data. Use only with adequate ventilation. Keep

container tightly closed and sealed until ready for use. Wash thoroughly after handling.

Routes of entry Dermal contact. Eye contact. Inhalation. Ingestion.

Potential health effects

Eyes May cause eye irritation.

Skin May cause skin irritation. Prolonged or repeated contact can defat the skin and lead to irritation

and/or dermatitis.

**Inhalation** May cause respiratory tract irritation.

**Ingestion** Ingestion may cause gastrointestinal irritation and diarrhea.

See toxicological information (Section 11)

### 3. Composition/information on ingredients

Ingredient nameCAS #%Base oil - highly refinedVaries40 - 45trixylyl phosphate25155-23-11 - 5

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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 symptoms occur.

**Skin contact** Immediately wash exposed skin with soap and water. Remove contaminated clothing and shoes.

Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if

symptoms occur.

Inhalation If inhaled, remove to fresh air. Get medical attention if symptoms occur.

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 immediately.

# 5. Fire-fighting measures

Flash point Open cup: 200°C (392°F) [Cleveland.]

Fire/explosion hazards In a fire or if heated, a pressure increase will occur and the container may burst.

**Extinguishing media** 

Suitable Use an extinguishing agent suitable for the surrounding fire.

**Not suitable** Do not use water jet.

Fire-fighting procedures Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.

No action shall be taken involving any personal risk or without suitable training. Fire water contaminated with this material must be contained and prevented from being discharged to any

waterway, sewer or drain.

**Hazardous combustion** 

products

Combustion products may include the following:

phosphorus oxides

carbon oxides (CO, CO<sub>2</sub>) (carbon monoxide, carbon dioxide)

sulfur oxides (SO<sub>2</sub>, SO<sub>3</sub> etc.)

**Protective clothing (fire)** Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus

(SCBA) with a full face-piece operated in positive pressure mode.

#### 6. Accidental release measures

Personal precautions No action shall be taken involving any personal risk or without suitable training. Keep unnecessary

and unprotected personnel from entering. Do not touch or walk through spilled material. In accordance with good industrial hygiene and safety work practices, airborne exposures should be controlled to the lowest extent practicable. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see

Section 8).

**Environmental** precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers,

waterways, soil or air). Water polluting material. May be harmful to the environment if released in

large quantities.

Methods for cleaning up

Large spill Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent

entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

Note: see section 1 for emergency contact information and section 13 for waste disposal.

Small spill Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-

soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

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### 7. Handling and storage

Handling Put on appropriate personal protective equipment (see Section 8). Workers should wash hands

and face before eating, drinking and smoking. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. Use only with adequate

ventilation. Wear appropriate respirator when ventilation is inadequate.

Storage Store in accordance with local regulations. Store away from direct sunlight in a dry, cool and well-

ventilated area, away from incompatible materials (see section 10). Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate

containment to avoid environmental contamination.

Other information Sulfur compounds in this material may decompose when heated to release hydrogen sulfide gas

which may accumulate to potentially lethal concentrations in enclosed air spaces. Vapor concentrations of hydrogen sulfide above 50 ppm, or prolonged exposure at lower concentrations, may saturate human odor perceptions so that the smell of gas may not be apparent. Exposure to concentrations of hydrogen sulfide vapor above 500 ppm may cause rapid death. Do not rely on

the sense of smell to detect hydrogen sulfide.

### 8. Exposure controls/personal protection

Occupational exposure limits

Ingredient name Occupational exposure limits

Base oil - highly refined ACGIH (United States).

TWA: 5 mg/m<sup>3</sup> 8 hour(s). Form: Mineral oil, mist

OSHA (United States).

TWA: 5 mg/m<sup>3</sup> 8 hour(s). Form: Mineral oil, mist

While specific OELs for certain components may be shown in this section, other components may be present in any mist, vapor or dust produced. Therefore, the specific OELs may not be applicable to the product as a whole and are provided for guidance only.

Some states may enforce more stringent exposure limits.

Control Measures Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist,

use process enclosures, local exhaust ventilation or other engineering controls to keep worker

exposure to airborne contaminants below any recommended or statutory limits.

Hygiene measures Wash hands, forearms and face thoroughly after handling chemical products, before eating,

smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before

reusing.

Personal protection

Eyes Avoid contact with eyes. Safety glasses with side shields or chemical goggles.

Skin and body Do not get on skin or clothing. Wear clothing and footwear that cannot be penetrated by

chemicals or oil. Wear face shield.

**Respiratory** Use adequate ventilation. Do not breathe vapor or mist.

Hands The correct choice of protective gloves depends upon the chemicals being handled, the conditions

of work and use, and the condition of the gloves (even the best chemically resistant glove will break down after repeated chemical exposures). Most gloves provide only a short time of protection before they must be discarded and replaced. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. Gloves should therefore be chosen in consultation with the supplier/manufacturer and

with a full assessment of the working conditions.

# 9. Physical and chemical properties

Physical state Liquid.

Color Gray.

 Flash point
 Open cup: 200°C (392°F) [Cleveland.]

 Density
 950 kg/m³ (0.95 g/cm³) at 15.6°C

Viscosity Kinematic: 190 mm<sup>2</sup>/s (190 cSt) at 40°C

Solubility insoluble in water.

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### 10. Stability and reactivity

Stability and reactivity

The product is stable.

Possibility of hazardous

reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid

Avoid all possible sources of ignition (spark or flame).

Incompatibility with various substances Reactive or incompatible with the following materials: oxidizing materials.

Hazardous decomposition

products

Hydrogen Sulfide (H2S)

**Hazardous polymerization** 

Under normal conditions of storage and use, hazardous polymerization will not occur.

### 11. Toxicological information

Other Toxicity Data

Although biological testing has found evidence of delayed neurotoxic effects with various grades of trixylyl phosphate, no neurotoxic effects have been observed with this product. However, product should still be regarded as having a potential to cause damage to the nervous system by inhalation, skin contact or ingestion. Good working practices and personal hygiene must be maintained at all times to ensure contact with the product is avoided.

trixylyl phosphate: Possible reproductive hazard based on studies with laboratory animals.

Over exposure to vapors may result in headaches, dizziness, nausea.

Potential chronic health effects

Carcinogenicity No known significant effects or critical hazards.

**Fertility effects** Contains material which may impair male fertility, based on animal data.

### 12. Ecological information

#### **Ecotoxicity**

No testing has been performed by the manufacturer.

# 13. Disposal considerations

Waste information

The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

NOTE: The generator of waste has the responsibility for proper waste identification (based on characteristic(s) or listing), transportation and disposal

# 14. Transport information

International transport regulations

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Regulatory information	UN number	Proper shipping name	Class	Packing group	Additional information
DOT Classification	Not regulated.	-	-	-	-
TDG Classification	Not regulated.	-	-	-	-
IMDG Classification	UN3082	Environmentally hazardous substance, liquid, n.o.s. (trixylyl phosphate). Marine pollutant	9	III	-
IATA/ICAO Classification	UN3082	Environmentally hazardous substance, liquid, n.o.s. (trixylyl phosphate)	9	III	Remarks Environmentally hazardous substance mark.

### 15. Regulatory information

#### U.S. Federal Regulations

United States inventory (TSCA 8b)

All components are listed or exempted.

SARA 302/304/311/312 extremely hazardous substances: No products were found. SARA 302/304 emergency planning and notification: No products were found. SARA 302/304/311/312 hazardous chemicals: No products were found.

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Moly Dee CF

Tapping Fluid: Immediate (acute) health hazard, Delayed (chronic) health hazard

**SARA 313** 

Form R - Reporting requirements

This product does not contain any hazardous ingredients at or above regulated thresholds.

**Supplier notification** This product does not contain any hazardous ingredients at or above regulated thresholds.

CERCLA Sections 102a/103 Hazardous Substances (40 CFR Part 302.4): CERCLA: Hazardous substances.: lead: 10 lbs. (4.54 kg); xylenol: 1000 lbs. (454 kg);

State regulations

Massachusetts Substances None of the components are listed.

New Jersey Hazardous Substances

None of the components are listed.

Pennsylvania RTK Hazardous Substances The following components are listed: OILS, LARD

California Prop. 65

**WARNING:** This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

lead

Other regulations

Canada inventory All components are listed or exempted.

REACH Status For the REACH status of this product please consult your company contact, as identified in Section

1.

Australia inventory (AICS)

China inventory (IECSC)

Japan inventory (ENCS)

Korea inventory (KECI)

At least one component is not listed.

At least one component is not listed.

All components are listed or exempted.

All components are listed or exempted.

At least one component is not listed.

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#### 16. Other information

Label requirements CAUTION!

MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION.

POSSIBLE REPRODUCTIVE HAZARD - CONTAINS MATERIAL WHICH MAY CAUSE ADVERSE

REPRODUCTIVE EFFECTS, BASED ON ANIMAL DATA.

HMIS® Rating:

Health \* 1
Flammability 1
Physical 0

Hazard
Personal B
protection

National Fire Protection

Association (U.S.A.)

Health Tire hazard
Instability
Specific hazard

**History** 

Date of issue 01/09/2012.

Date of previous issue 01/05/2012.

Prepared by Product Stewardship

Indicates information that has changed from previously issued version.

#### 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 BP Group.

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. You can contact the BP Group to ensure that this document is the most current available. Alteration of this document is strictly prohibited.

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