

Material Safety Data Sheet

MC 2048BT

1. Product and company identification

Product name : MC 2048BT

Material uses : Industrial applications: Lubricants

Manufacturer : Metalcote Division of Chemtool Incorporated

801 West Rockton Road Rockton, IL 61072 U.S.A. Tel: +01 815.957.4140 Fax: +01 815.624.0292

Product code : LXB2602000

MSDS # : 1114

Validation date : 2/17/2011.

In case of emergency : INFOTRAC

U.S. and Canada - 800.535.5053

Outside the U.S. and Canada - +01 352.323.3500

e-mail address of person responsible for this SDS

: chemtool_regulatory@chemtool.com

2. Hazards identification

Emergency overview

Physical state : Solid. [grease]

Color : Blue.
Odor : Mild.

Hazard statements : NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN

THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.

OSHA/HCS status : While this material is not considered hazardous by the OSHA Hazard Communication

Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and

available for employees and other users of this product.

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

Potential acute health effects

Inhalation: No known significant effects or critical hazards.Ingestion: No known significant effects or critical hazards.Skin: No known significant effects or critical hazards.Eyes: No known significant effects or critical hazards.

Potential chronic health effects

Chronic effects
 Carcinogenicity
 No known significant effects or critical hazards.
 Mutagenicity
 No known significant effects or critical hazards.
 Teratogenicity
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.

Validated on 2/17/2011. 1/12

2. Hazards identification

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Over-exposure signs/symptoms

Inhalation: No specific data.Ingestion: No specific data.Skin: No specific data.Eyes: No specific data.Medical conditions: None known.

aggravated by over-

exposure

See toxicological information (Section 11)

3. Composition/information on ingredients

United States

Name	CAS number	%
Mineral oil.	Mixture	80-90

Canada

Name	CAS number	%
Mineral oil.	Mixture	80-90

Mexico

						Cla	assification
Name	CAS number	UN number	%	IDLH	Н	F	R
Mineral oil.	Mixture	Not available.	80-90	2500 mg/m ³	1	1	0 -

4. First aid measures

Eye contact

: Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if symptoms occur.

Skin contact

: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if symptoms occur.

Inhalation

: Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms occur.

Ingestion

: Wash out mouth with water. 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 occur.

Protection of first-aiders

: No action shall be taken involving any personal risk or without suitable training.

Notes to physician

: No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Validated on 2/17/2011. 2/12

5. Fire-fighting measures

Flammability of the product : No specific fire or explosion hazard.

Extinguishing media

Suitable

: Use an extinguishing agent suitable for the surrounding fire.

Not suitable

: None known.

Special exposure hazards

: 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

Hazardous thermal decomposition products : Decomposition products may include the following materials:

carbon dioxide carbon monoxide metal oxide/oxides

Special protective equipment for fire-fighters : 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. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. 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).

Methods for cleaning up

Small spill

: Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal

contractor.

Large spill

: Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.

7. Handling and storage

Handling

: Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.

Storage

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. 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.

Validated on 2/17/2011. 3/12

8. Exposure controls/personal protection

United States

Ingredient	Exposure limits
Mineral oil.	ACGIH TLV (United States, 2/2010). TWA: 5 mg/m³ 8 hour(s). Form: Inhalable fraction. See Appendix C, paragraph A. Inhalable Particulate Mass TLVs (IPM–TLVs) for those materials that are hazardous when deposited anywhere in the respiratory tract. NIOSH REL (United States, 6/2009). TWA: 5 mg/m³ 10 hour(s). Form: Mist STEL: 10 mg/m³ 15 minute(s). Form: Mist OSHA PEL (United States, 11/2006). TWA: 5 mg/m³ 8 hour(s).

Canada

Occupational exposure limits		TWA (8 hours) STEL (15 mins)		Ceiling							
Ingredient	List name	ppm	mg/m³	Other	ppm	mg/m³	Other	ppm	mg/m³	Other	Notations
Mineral oil.	US ACGIH 2/2010 ON 7/2010 QC 6/2008	- - -	5 5 5	- - -	- - -	- 10 10	- - -	- - -	- - -	-	[a] [b] [b]

Form: [a]Inhalable fraction. See Appendix C, paragraph A. Inhalable Particulate Mass TLVs (IPM–TLVs) for those materials that are hazardous when deposited anywhere in the respiratory tract. [b]mist

Mexico

Occupational exposure limits

Ingredient	Exposure limits
Mineral oil.	NOM-010-STPS (Mexico, 9/2000). LMPE-PPT: 5 mg/m³ 8 hour(s). Form: mist LMPE-CT: 10 mg/m³ 15 minute(s). Form: mist

Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

Engineering measures

: No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure 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. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protection

Respiratory

: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hands

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

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8. Exposure controls/personal protection

Eves

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

Skin

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. Physical and chemical properties

Physical state : Solid. [grease] Flash point Not available. Not available. **Auto-ignition temperature** Flammable limits Not available.

Color Blue. Odor Mild.

Molecular weight : Not applicable. Molecular formula Not applicable. : Not available. pН **Boiling/condensation point** Not available. Melting/freezing point : Not available. **Critical temperature** : Not available. : 0.9 g/cm³ Density Not available. Relative density Not available. Vapor pressure Vapor density Not available. Not available. Volatility **Odor threshold** Not available. **Evaporation rate** Not available.

Dispersibility properties : Not available. **Solubility** Insoluble in the following materials: cold water and hot water.

Not available.

 Not available. Physical/chemical

properties comments

Viscosity

10. Stability and reactivity

Chemical stability : The product is stable. Conditions to avoid No specific data. Incompatible materials : No specific data.

Hazardous decomposition

products

Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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

Validated on 2/17/2011. 5/12

11. Toxicological information

United States

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Mineral oil.	LD50 Dermal LD50 Oral	Rabbit Rat	>5000 mg/kg >5000 mg/kg	-

Conclusion/Summary

Conclusion/Summary

: No known significant effects or critical hazards.

Chronic toxicity

: Repeated or prolonged exposure to spray or mist may produce respiratory tract irritation. Conclusion/Summary

Irritation/Corrosion

Skin : No known significant effects or critical hazards.

Eyes : No known significant effects or critical hazards. : Repeated or prolonged exposure to spray or mist may produce respiratory tract irritation. Respiratory

Pre-existing respiratory disorders may be aggravated by over-exposure to this product.

Sensitizer

Conclusion/Summary

Skin : No specific information is available in our database regarding the skin sensitizing

properties of this product. Sensitization not suspected for humans.

Respiratory

: Sensitization not suspected for humans.

Carcinogenicity

Conclusion/Summary : There are no data available on the preparation itself. Carcinogenicity not suspected for

humans.

Mutagenicity

: There are no data available on the preparation itself. Mutagenicity not suspected for **Conclusion/Summary**

humans.

Teratogenicity

Conclusion/Summary : There are no data available on the preparation itself. Teratogenicity not suspected for

Reproductive toxicity

Conclusion/Summary : There are no data available on the preparation itself. Not considered to be dangerous to humans, according to our database.

Acute toxicity

Canada

Product/ingredient name	Result	Species	Dose	Exposure
Mineral oil.	LD50 Dermal LD50 Oral		>5000 mg/kg >5000 mg/kg	-

Conclusion/Summary

No known significant effects or critical hazards.

Chronic toxicity

Conclusion/Summary : Repeated or prolonged exposure to spray or mist may produce respiratory tract irritation.

Irritation/Corrosion

Conclusion/Summary

Skin No known significant effects or critical hazards. **Eyes** No known significant effects or critical hazards.

: Repeated or prolonged exposure to spray or mist may produce respiratory tract irritation. Respiratory Pre-existing respiratory disorders may be aggravated by over-exposure to this product.

Validated on 2/17/2011. 6/12

11. Toxicological information

Sensitizer

Conclusion/Summary

Skin

: No specific information is available in our database regarding the skin sensitizing properties of this product. Sensitization not suspected for humans.

Respiratory

: Sensitization not suspected for humans.

Carcinogenicity

Conclusion/Summary

: There are no data available on the preparation itself. Carcinogenicity not suspected for humans.

Mutagenicity

Conclusion/Summary

: There are no data available on the preparation itself. Mutagenicity not suspected for humans.

Teratogenicity

Conclusion/Summary

 There are no data available on the preparation itself. Teratogenicity not suspected for humans.

Reproductive toxicity

Conclusion/Summary

: There are no data available on the preparation itself. Not considered to be dangerous to humans, according to our database.

Mexico

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Mineral oil.	LD50 Dermal LD50 Oral	Rabbit Rat	>5000 mg/kg >5000 mg/kg	-

Conclusion/Summary

Chronic toxicity

Conclusion/Summary

: Repeated or prolonged exposure to spray or mist may produce respiratory tract irritation.

Irritation/Corrosion

Conclusion/Summary

Skin

Eyes

Respiratory

: No known significant effects or critical hazards.

: No known significant effects or critical hazards.

: No known significant effects or critical hazards.

: Repeated or prolonged exposure to spray or mist may produce respiratory tract irritation. Pre-existing respiratory disorders may be aggravated by over-exposure to this product.

Sensitizer

Conclusion/Summary

Skin

: No specific information is available in our database regarding the skin sensitizing properties of this product. Sensitization not suspected for humans.

Respiratory

Carcinogenicity

Conclusion/Summary

: Sensitization not suspected for humans.

: There are no data available on the preparation itself. Carcinogenicity not suspected for humans.

Mutagenicity

Conclusion/Summary

: There are no data available on the preparation itself. Mutagenicity not suspected for humans.

Teratogenicity

Conclusion/Summary

 There are no data available on the preparation itself. Teratogenicity not suspected for humans.

Reproductive toxicity

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11. Toxicological information

Conclusion/Summary

There are no data available on the preparation itself. Not considered to be dangerous to humans, according to our database.

12. Ecological information

Ecotoxicity

: Not readily biodegradable.

United States

Aquatic ecotoxicity

Conclusion/Summary

Persistence/degradability

Conclusion/Summary

: No known significant effects or critical hazards.

: This product has not been tested for biodegradation. Not expected to be rapidly degradable. This product is not expected to bioaccumulate through food chains in the environment.

Canada

Aquatic ecotoxicity

Conclusion/Summary

Persistence/degradability

Conclusion/Summary

: No known significant effects or critical hazards.

: This product has not been tested for biodegradation. Not expected to be rapidly degradable. This product is not expected to bioaccumulate through food chains in the environment.

Mexico

Aquatic ecotoxicity

Conclusion/Summary

Persistence/degradability

Conclusion/Summary

: No known significant effects or critical hazards.

: This product has not been tested for biodegradation. Not expected to be rapidly degradable. This product is not expected to bioaccumulate through food chains in the environment.

13. Disposal considerations

Waste disposal

: 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. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

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14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	Not regulated.	-	-	-		-
TDG Classification	Not regulated.	-	-	-		-
Mexico Classification	Not available.	Not available.	Not available.	-		-
ADR/RID Class	Not available.	Not available.	Not available.	-		-
IMDG Class	Not regulated.	-	-	-		-
IATA-DGR Class	Not regulated.	-	-	-		-

PG*: Packing group

15. Regulatory information

United States

HCS Classification : Not regulated.

U.S. Federal regulations : TSCA 4(a) final test rules: Naphthalene

TSCA 8(a) PAIR: Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts;

Naphthalene

TSCA 8(a) IUR Exempt/Partial exemption: Not determined

United States inventory (TSCA 8b): All components are listed or exempted.

TSCA 12(b) annual export notification: Naphthalene

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: No

products were found.

Clean Water Act (CWA) 307: Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc

salts; tris(dipentyldithiocarbamato-S,S')antimony; Naphthalene

Clean Water Act (CWA) 311: Naphthalene

Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs) : Not listed

Clean Air Act Section 602

Class I Substances

: Not listed

Clean Air Act Section 602

Class II Substances

: Not listed

DEA List I Chemicals (Precursor Chemicals)

: Not listed

DEA List II Chemicals (Essential Chemicals)

: Not listed

SARA 313

Validated on 2/17/2011. 9/12

15. Regulatory information

Product name CAS number Concentration %

Form R - Reporting

: No listed substance

requirements

Supplier notification : No listed substance

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

State regulations

Massachusetts : None of the components are listed.

New York : None of the components are listed.

New Jersey : The following components are listed: ZINC compounds
Pennsylvania : The following components are listed: ZINC COMPOUNDS

California Prop. 65

WARNING: This product contains less than 0.1% of a chemical known to the State of California to cause cancer.

Ingredient name	Cancer	Reproductive		Maximum acceptable dosage level
Naphthalene	Yes.	No.	Yes.	No.

United States inventory

(TSCA 8b)

: All components are listed or exempted.

<u>Canada</u>

WHMIS (Canada)

: Not controlled under WHMIS (Canada).

Canadian lists

Canadian NPRI: The following components are listed: Zinc

CEPA Toxic substances

: None of the components are listed.

Canada inventory:

: Not determined.

DSL/NDSL

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Mexico

Classification :



International regulations

International lists : Australia inventory (AICS): All components are listed or exempted.

China inventory (IECSC): All components are listed or exempted.

Japan inventory: Not determined. **Korea inventory**: Not determined.

New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.

Philippines inventory (PICCS): All components are listed or exempted.

Europe inventory: Not determined.

Chemical Weapons

Convention List Schedule I

Chemicals

: Not listed

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15. Regulatory information

Chemical Weapons : Not listed

Convention List Schedule

II Chemicals

Chemical Weapons

: Not listed

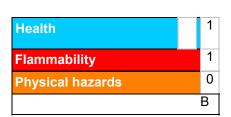
Convention List Schedule

III Chemicals

16. Other information

Label requirements : NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.

Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

code

US HTS Import Code : 2710.19.3500

Date of issue : 2/17/2011.

Date of previous issue : No previous validation.

Version : 1

Prepared by : Regulatory Department, Chemtool Inc.

▼ Indicates information that has changed from previously issued version.

Validated on 2/17/2011. 11/12

16. Other information

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Validated on 2/17/2011. 12/12