

MATERIAL SAFETY DATA SHEET CHECK-MARK MB-200

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SECTION I - GENERAL INFORMATION

Chemical Name & Synonyms: N/A Trade Name & Synonyms: CHECK-MARK MB-200

Chemical Family: AROMATIC HYDROCARBON/THIOCYANATE Formula Mixture: X

Manufacturer's Name: CHECK-MARK DIV. OF DM RESOURCES, INC.

Address: 1310 E. NORTHGATE DRIVE
 IRVING, TEXAS 75062

Prepared By: R Stolley/Chemist
 Product Code Number: 0829
 Emergency Phone Number: 972-438-1381

SECTION II - HAZARDOUS INGREDIENTS

THE HAZARDS PRESENTED BELOW ARE THOSE OF THE INDIVIDUAL COMPONENTS:

- | | |
|------------------------------|-------------------------------------|
| Chemical Name (Ingredients): | HEAVY AROMATIC NAPHTHA |
| Hazard: | COMB/IRR |
| TLV: | 5 MG/M3\$ 1 |
| PEL: | 5 MG/M3\$ 2 |
| STEL: | NOT EST. |
| CAS#: | 64742-94-5 |
| Chemical Name (Ingredients): | 2-(THIOCYANOMETHYLTHIO)BENZOTHAZOLE |
| Hazard: | IRR/SENS |
| TLV: | NOT EST. 1 |
| PEL: | NOT EST. 2 |
| STEL: | NOT EST. |
| CAS#: | 21564-17-0 |
| Chemical Name (Ingredients): | METHYLENE BIS (THIOCYANATE) |
| Hazard: | IRR/SENS |
| TLV: | NOT EST. 1 |
| PEL: | NOT EST. 2 |
| STEL: | NOT EST. |
| CAS#: | 6317-18-6 |
| Chemical Name (Ingredients): | DIETHYLENE GLYCOL MONOMETHYL ETHER |
| Hazard: | COMB/IRR |
| TLV: | NOT EST. 1 |
| PEL: | NOT EST. 2 |
| STEL: | NOT EST. |
| CAS#: | 111-77-3 |
| Chemical Name (Ingredients): | \$ OIL MIST VALUE |
| Hazard: | |
| TLV: | |
| PEL: | |
| STEL: | |

CAS#:

SECTION III - PHYSICAL DATA

Boiling Point (f): >212
Specific Gravity (H2O=1): 1.03
Vapor Pressure (MM HG): 0.5
Color: LIGHT AMBER
Vapor Density (Air=1): 4.1
Odor: SLIGHT SOLVENT
PH @ 100%: 6-7@.01%
Clarity: TRANSPARENT
Volatile by Volume: 95
Evaporation Rate (BU A/C=1): 0.1
H2O Solubility: DISPERSIBLE
Viscosity: NON-VISCOUS

SECTION IV - FIRE AND EXPLOSION HAZARD

Flash Point: 158 F / T.C.C.
Flammable Limits: DIETHYLENE GLYCOL MONOMET LEL: 1.7% UEL:9.5%

Extinguishing Media:
Foam: X Alcohol Foam: CO2: X
Dry Chemical: X Water Spray: X Other:

Special Fire Fighting Procedures:
FIREFIGHTERS SHOULD WEAR A SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE GEAR. COOL FIRE-EXPOSED CONTAINERS WITH WATER SPRAY TO PREVENT BURSTING.

Unusual Fire and Explosion Hazards:
THE USE OF WATER AS AN EXTINGUISHING MEDIUM MAY CAUSE FROTHING AND FOAMING. VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL TO DISTANT SOURCES OF IGNITION AND FLASHBACK.

Aerosol Level (NFPA 30B): N/A
NFPA 704 Hazard Rating:
(0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme)
Health: 3 Flammability: 2 Instability: 1 Special:

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value:
5 MG/M3 AS OIL MIST 1.

Effects of Overexposure:
-Acute (Short Term Exposure)
EYE CONTACT: CORROSIVE. CAUSES BURNS, CORNEAL DAMAGE AND POSSIBLE BLINDNESS.
SKIN CONTACT: CORROSIVE. CAUSES BURNS AND POSSIBLE DEEP ULCERATIONS OR SCARRING. MAY CAUSE AN ALLERGIC SKIN REACTION. PRODUCT MAY BE ABSORBED THROUGH THE SKIN IN HARMFUL AMOUNTS.
INHALATION: MAY CAUSE IRRITATION OR BURNS TO THE MUCOUS MEMBRANES AND LUNGS. INGESTION: MAY CAUSE SEVERE IRRITATION OR BURNS TO THE MOUTH AND THROAT. MAY CAUSE NAUSEA, VOMITING AND DIARRHEA. INGESTION AND SUBSEQUENT VOMITING OF THIS PRODUCT CAN LEAD TO ASPIRATION OF THE PRODUCT INTO THE LUNGS WHICH CAN CAUSE DAMAGE AND MAY BE FATAL.

-Chronic (Long Term Exposure)
MAY CAUSE SKIN SENSITIZATION IN SOME INDIVIDUALS.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE ARE PRE-EXISTING RESPIRATORY AND SKIN CONDITIONS SUCH AS ASTHMA, EMPHYSEMA, AND DERMATITIS.
TARGET ORGANS: BLOOD-FORMING ORGANS.

Primary Routes of Entry: Inhalation: Ingestion: Absorption: X

Emergency and First Aid Procedures:

-Inhalation:

REMOVE VICTIM TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION, PREFERABLY MOUTH-TO-MOUTH. GET MEDICAL ATTENTION.

-Eye Contact:

CALL A PHYSICIAN. HOLD EYELIDS OPEN AND FLUSH WITH A STEADY STREAM OF WATER FOR ABOUT 15 MINUTES.

-Skin Contact:

WASH WITH PLENTY OF SOAP AND WATER. REMOVE CONTAMINATED CLOTHING AND SHOES. GET MEDICAL ATTENTION.

-Ingestion:

DRINK PROMPTLY A LARGE QUANTITY OF MILK, EGG WHITES, GELATIN SOLUTION, OR IF THESE ARE NOT AVAILABLE, LARGE QUANTITIES OF WATER. AVOID ALCOHOL. GET MEDICAL ATTENTION. DO NOT INDUCE VOMITING AS THIS MAY CAUSE ASPIRATION PNEUMONIA.

-Notes to Physician:

EXPOSED INDIVIDUALS VIA INHALATION SHOULD BE MONITORED FOR RESPIRATORY DISTRESS, BRONCHITIS OR PNEUMONIA.
PROBABLE MUCOSAL DAMAGE MAY CONTRAINDICATE THE USE OF GASTRIC LAVAGE.
INGESTION AND SUBSEQUENT VOMITING OF THIS PRODUCT CAN LEAD TO ASPIRATION OF THE PRODUCT INTO THE LUNGS WHICH CAN CAUSE DAMAGE AND MAY BE FATAL.

SECTION VI - TOXICITY INFORMATION

Product Contains Chemicals Listed as Carcinogen or Potential Carcinogen By:

IARC: No NTP: No OSHA: No ACGIH: No

OTHER: No

HEAVY AROMATIC NAPHTHA

ORL-RAT LD50: > 11,970 MG/KG 3.
IHL-RAT LC50: > 590 MG/M3/4H 3.
SKN-RBT LD50: > 4500 MG/KG 3.
SKN-RBT SDT: 500 UL/24H MILD 3.

2-(THIOCYANOMETHYLTHIO)BENZOTHAZOLE

ORL-RAT LD50: 2 GM/KG 4.
SKN-RBT LD50:10 G/KG 4.
SKN-RBT TDLo: 7560 MG/KG/21D-I DERMATITIS 4.

METHYLENE BIS(THIOCYANATE)

ORL-RAT LD50: 55 MG/KG 4.
SKN-RBT LDLo: 398 MG/KG 4.
ORL-RAT TDLo: 520 MG/KG/13W-I RED BLOOD CELL CHANGES 4.

DIETHYLENE GLYCOL MONOMETHYL ETHER

ORL-RAT LD50: 4 ML/KG 4.
IHL-RAT LC: > 2 GM/M3/1H 4.
SKN-RBT LD50: 2500 UL/KG 4.
EYE-RBT SDT: 500 MG MODERATE 4.
ORL-RAT TDLo: 5052 G/KG/30D-C RED BLOOD CELL CHANGES 4.

SECTION VII - REACTIVITY DATA

Stability: Stable: X Unstable:

Conditions to Avoid: AVOID HEAT, HOT SURFACES, SPARKS AND OPEN FLAMES.

Incompatibility (Materials to Avoid):

STRONG OXIDIZING AGENTS SUCH AS CHLORINE BLEACH AND CONCENTRATED HYDROGEN PEROXIDE; STRONG ACIDS AND ALKALIS.

Hazardous Decomposition Products:

CYANIDE SALTS WITH ALKALI CONTACT. THERMAL DECOMPOSITION YIELDS OXIDES OF CARBON AND NITROGEN; HYDROGEN CYANIDE AND SULFUR DIOXIDE.

Hazardous Polymerization:

May Occur: Will Not Occur: X

Conditions to Avoid: NONE KNOWN.

SECTION VIII - SPILL OR LEAK PROCEDURES

Steps to be Taken if Material is Released or Spilled:

ELIMINATE ALL SOURCES OF IGNITION. DIKE AND CONTAIN SPILL IF SAFE TO DO SO. USE ONLY NON-SPARKING EQUIPMENT. ABSORB WITH AN INERT MATERIAL AND TRANSFER INTO A PROPERLY LABELED CONTAINER FOR DISPOSAL. WEAR APPROPRIATE PROTECTIVE CLOTHING. PREVENT PRODUCT FROM CONTAMINATING SOIL OR FROM ENTERING SEWAGE AND DRAINAGE SYSTEMS AND BODIES OF WATER.

Waste Disposal Method(s):

DISPOSE OF IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS. THIS PESTICIDE IS TOXIC TO FISH. DO NOT DISCHARGE EFFLUENT CONTAINING THIS COMPOUND INTO ANY BODY OF WATER UNLESS IN ACCORDANCE WITH THE REQUIREMENTS OF A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT. DO NOT DISCHARGE TO SEWER WITHOUT PREVIOUSLY NOTIFYING THE LOCAL SEWAGE TREATMENT FACILITY.

Neutralizing Agent:

NONE KNOWN.

SECTION IX - SPECIAL PROTECTION INFORMATION

Required Ventilation:

LOCAL VENTILATION IS RECOMMENDED TO CONTROL EXPOSURE FROM OPERATIONS THAT CAN GENERATE MISTS OR VAPORS.

Respiratory Protection:

A NIOSH/MSHA APPROVED RESPIRATOR IN POORLY VENTILATED AREAS AND/OR FOR EXPOSURE ABOVE THE ACGIH TLV OR OSHA PEL OR WHERE MISTING EXISTS.

Glove Protection:

NEOPRENE OR NITRILE RUBBER GLOVES SHOULD BE WORN.

Eye Protection:

CHEMICAL GOGGLES AND A FACE SHIELD SHOULD BE WORN.

Other Protection:

WEAR PROTECTIVE CLOTHING WHEN HANDLING. SAFETY SHOWER AND EYE WASH SHOULD BE AVAILABLE.

SECTION X - STORAGE AND HANDLING INFORMATION

Storage Temperature: Indoors: X Outdoors: Heated:
Refrigerated:

Minimum Temperature: 35°F Maximum Temperature: 120°F

Precautions to be taken in Handling and Storing:

ALWAYS STORE MATERIAL IN ITS ORIGINAL CONTAINER. KEEP CONTAINER TIGHTLY CLOSED WHEN NOT IN USE. USE WITH CAUTION AROUND HEAT, SPARKS, PILOT LIGHTS, STATIC ELECTRICITY AND OPEN FLAME. GROUND AND BOND CONTAINER WHEN HANDLING NEAR FLAMMABLE VAPORS AND ALL SOURCES OF IGNITION. DO NOT ALLOW PESTICIDE TO CONTAMINATE FOOD, FEED, OR NATURAL BODIES OF WATER. EMPTY CONTAINERS MAY CONTAIN PRODUCT RESIDUES WHICH MAY EXHIBIT THE HAZARDS OF THE PRODUCT.

Other Precautions:

KEEP OUT OF REACH OF CHILDREN. READ THE ENTIRE LABEL BEFORE USING THE PRODUCT. FOLLOW THE LABEL DIRECTIONS. DO NOT STACK MORE THAN 5 DRUMS HIGH. DRUMS SHOULD BE OPENED IN WELL-VENTILATED AREAS. LEAKING OR DAMAGED DRUMS MUST BE OVERPACKED FOR DISPOSAL.

SECTION XI - REGULATORY INFORMATION

Chemical Name	CAS Number	Upper % Limit	
DIETHYLENE GLYCOL MONOMETHYL ETHER		111-73-3	85

Those Ingredients listed above are subject to the reporting requirements of 313 of Title III and of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.

SECTION XII - REFERENCES

1. THRESHOLD LIMIT VALUES FOR CHEMICAL SUBSTANCES AND BIOLOGICAL EXPOSURE INDICES, ACGIH, 1999.
 2. OSHA PEL.
 3. VENDOR'S MSDS.
 4. REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES, CCINFODisc, 2000.
- ALL COMPONENTS IN THIS PRODUCT CAN BE FOUND IN THE CURRENT TSCA INVENTORY.

IRR:IRRITANT, FLAM/FLAMM:FLAMMABLE, COMB:COMBUSTIBLE, CORR:CORROSIVE CARC:CARCINOGENIC, TOX:TOXIC, N/A:NOT APPLICABLE, N/E:NOT ESTABLISHED, COC:CLEVELAND OPEN CUP, PMCC:PENSKY-MARTIN CLOSED CUP, TCC:TAGLIABUE CLOSED CUP, LEL:LOWER EXPLOSION LIMIT, UEL:UPPER EXPLOSION LIMIT, NFPA:NATIONAL FIRE PROTECTION ASSOCIATION, IARC:INTERNATIONAL AGENCY FOR THE RESEARCH ON CANCER, NTP:NATIONAL TOXICOLOGY PROGRAM, OSHA:OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION, ACGIH:AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS, TLV:THRESHOLD LIMIT VALUE, PEL:PERMISSIBLE EXPOSURE LIMIT, STEL:SHORT-TERM EXPOSURE LIMIT, MLD:MILD, MOD:MODERATE, SEV:SEVERE, MUT: MUTAGENIC, ASPHYX:ASPHYXIAN, Pnoc: PARTICULATES NOT OTHERWISE CLASSIFIED, SDT:STANDARD DRAIZE TEST, ORL: ORAL, HMN: HUMAN, IHL: INHALATION

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