

Material Safety Data Sheet


CHS Controls AB

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SECTION I - Material Identity

Item Name..... BRUSH-ON INSULATION COATING MATERIAL
 Part Number/Trade Name..... OCAL-PATCH GRAY, PITT-TECH DTM HIGH GLOSS-90A
 National Stock Number..... 8010L415915F
 CAGE Code..... 5K813
 Part Number Indicator..... A
 MSDS Number..... 189678
 HAZ Code..... B

SECTION II - Manufacturer's Information

Manufacturer Name..... OCAL INC. (A DIV. OF THOMAS AND BETTS)
 Street..... 400 DUNLAP DR
 City..... PINTO ISLAND - MOBILE
 State..... AL
 Country..... US
 Zip Code..... 36601
 Emergency Phone..... 800-424-9300 CHEMTREC
 Information Phone..... 901-682-7766

MSDS Preparer's Information

Date MSDS Prepared/Revised..... 10AUG00
 Active Indicator..... N

Alternate Vendors

SECTION III - Physical/Chemical Characteristics

Hazard Storage Compatibility Code..... NR
 NRC License Number..... NR
 Net Propellant Weight (Ammo)..... NR
 Appearance/Odor..... VISCOUS LIQUID WITH AN ODOR CHARACTERISTIC OF THE CHEMICAL FAMILY AND ANY SOLVEN
 Boiling Point..... 212-545 F
 Melting Point..... NR
 Vapor Pressure..... 17.8
 Vapor Density..... > AIR
 Specific Gravity..... 1.075
 Decomposition Temperature..... NR
 Evaporation Rate..... 33
 Solubility in Water..... 72.7%
 Percent Volatiles by Volume..... 62-70

Chemical pH..... NA
 Corrosion Rate..... NR
 Container Pressure Code..... 1
 Temperature Code..... 4
 Product State Code..... L

SECTION IV - Fire and Explosion Hazard Data

Flash Point..... 220
 Flash Point Method..... PMCC
 Extinguishing Media..... USE EXTINGUISHERS APPROPRIATE FOR SURROUNDING FIRE.
 Special Fire Fighting Procedures..... WATER SPRAY MAY BE INEFFECTIVE. WATER SPRAY MAY BE USED TO COOL CLOSED CONTAINERS THAT ARE EXPOSED TO EXTREME HEAT. IF WATER IS USED, FOG NOZZLES ARE PREFERABLE. FIREFIGHTERS SHOULD WEAR SCBA AND FULL PROTECTIVE CLOTHING.
 Unusual Fire/Explosion Hazards..... CLOSED CONTAINERS MAY EXPLODE OR BURST (DUE TO THE BUILD-UP OF STEAM PRESSURE) WHEN EXPOSED TO EXTREME HEAT.

SECTION V - Reactivity Data

Stability..... YES
 Stability Conditions to Avoid..... AVOID CONTACT WITH STRONG ALKALIES, STRONG MINERAL ACIDS, OR STRONG OXIDIZING AGENTS.
 Materials to Avoid..... AVOID CONTACT WITH STRONG ALKALIES, STRONG MINERAL ACIDS, OR STRONG OXIDIZING AGENTS.
 Hazardous Decomposition Products..... THERMAL - CARBON MONOXIDE, CARBON DIOXIDE, IRON OXIDES, OXIDES OF ALUMINUM, HYDROGEN CYANIDE, AMMONIA, OXIDES OF NITROGE
 Hazardous Polymerization..... NO
 Polymerization Conditions to Avoid..... WILL NOT OCCUR

SECTION VI - Health Hazard Data

Route of Entry: Skin..... YES
 Route of Entry: Ingestion..... YES
 Route of Entry: Inhalation..... YES
 Health Hazards - Acute and Chronic..... [INGEST] HARMFUL IF SWALLOWED [EYE] CAUSES SEVERE EYE IRRITATION [SKIN] MAY CAUSE SLIGHT SKIN IRRITATION. MAY BE HARMFUL IF ABSORBED THROUGH SKIN. [INHAL] VAPOR AND OR SPRAY MIST MAY BE HARMFUL IF INHALED. REPEATED EXPOSURE TO HIGH VAPOR CONCENTRATIONS MAY CAUSE IRRITATION OF THE RESPIRATORY SYSTEM AND PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE.
 Carcinogenity: NTP..... NO
 Carcinogenity: IARC..... YES
 Carcinogenity: OSHA..... NO



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Explanation of Carcinogenity..... CARBON BLACK CONSIDERED CARCINOGEN BY IARC.

Symptoms of Overexposure..... EYES WATERING, HEADACHES, NAUSEA, DIZZINESS, AND LOSS OF COORDINATION ARE INDICATIONS THAT SOLVENT LEVELS ARE TOO HIGH. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS CAN BE HARMFUL. REDNESS, ITCHING, BURNING SENSATION AND VISUAL DISTURBANCES MAY INDICATE EXCESSIVE EYE CONTACT. DRYNESS, ITCHING, CRACKING, BURNING, REDNESS AND SWELLING ARE CONDITIONS ASSOCIATED WITH EXCESSIVE SKIN CONTACT.

Medical Cond. Aggrevated by Exposure.... NR

Emergency/First Aid Procedures..... [INGEST] IF SWALLOWED DO NOT INDUCE VOMITING. GENTLY WIPE OUT INSIDE MOUTH TO REMOVE ANY RESIDUAL MATERIAL. [EYE] IN CASE OF EYE CONTACT, REMOVE CONTACT LENSES AND FLUSH IMMEDIATELY WITH A GENTLY STREAM OF LUKE WARM WATER FOR AT LEAST 15 MIN. [SKIN] FLUSH IMMEDIATELY WITH PLENTY OF WATER FOR AT LEAST 15 MIN FOLLOWED BY WASHING WITH SOAP AND WATER. [INHAL] IF AFFECTED BY INHALATION OF VAPOR OR SPRAY MIST, REMOVE TO FRESH AIR. APPLY ARTIFICIAL RESPIRATION AND OTHER SUPPORT MEASURES AS REQUIRED.

SECTION VII - Precautions for Safe Handling and Use

Steps if Material Released/Spilled..... PROVIDE MAXIMUM VENTILATION. ONLY PERSONNEL EQUIPPED WITH PROPER RESPIRATORY, SKIN AND EYE PROTECTION SHOULD BE PERMITTED IN THE AREA. REMOVE ALL SOURCES OF IGNITION. TAKE UP SPILL MATERIAL WITH SAND, VERMICULITE, OR OTHER NONCOMBUSTIBLE ABSORBENT MATERIAL AND PLACE IN CLEAN EMPTY CONTAINERS FOR DISPOSAL. ONLY THE SPILLED MATERIAL AND THE ABSORBENT SHOULD BE PLACED IN THIS CONTAINER.

Waste Disposal Method..... WASTE MATERIAL MUST BE DISPOSED OF IN ACCORDANCE WITH FEDERAL, STATE, PROVINCIAL, AND LOCAL ENVIRONMENTAL CONTROL REGULATIONS. EMPTY CONTAINERS SHOULD BE RECYCLED OR DISPOSED OF THROUGH AN APPROVED WASTER MANAGEMENT FACILITY.

Handling and Storage Precautions..... PROTECT FROM FREEZING.

Other Precautions..... IF THIS MATERIAL IS PART OF A MULTIPLE COMPONENT SYSTEM, READ THE MSDS FOR THE OTHER COMPONENT OR COMPONENTS BEFORE BLENDING AS THE RESULTING MIXTURE MAY HAVE THE HAZARDS OF ALL OF ITS PARTS.

SECTION VIII - Control Measures

Respiratory Protection..... ENSURING PROPER VENTILATION CONTROLS,



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VAPOR EXHAUST OR FRESH AIR ENTRY MAY PREVENT OVEREXPOSURE TO VAPORS. A NIOSH APPROVED AIR PURIFYING RESPIRATOR WITH THE APPROPRIATE CHEMICAL CARTRIDGES.

Ventilation..... GENERAL DILUTION OR LOCAL EXHAUST VENTILATION IN VOLUME AND PATTERN TO KEEP BELOW PEL.

Protective Gloves..... NEOPRENE RUBBER, NITRILE OR LATEX

Eye Protection..... CHEM TYPE SPLASH GOGGLES

Other Protective Equipment..... CLEAN CONTAMINATED CLOTHING AND SHOES

Work Hygenic Practices..... NR

SECTION IX - Label Data

Protect Eye..... YES

Protect Skin..... YES

Protect Respiratory..... YES

Chronic Indicator..... YES

Contact Code..... SLIGHT

Fire Code..... UNKNOWN

Health Code..... UNKNOWN

React Code..... UNKNOWN

Specific Hazard and Precaution..... TARGET ORGANS: CENTRAL NERVOUS SYSTEM, RESPIRATORY SYSTEM, KIDNEY, LIVER, BLOOD

SECTION X - Transportation Data

Container Quantity..... 1

Unit of Measure..... PT

SECTION XI - Site Specific/Reporting Information

Volatile Organic Compounds (P/G)..... 6.4

Volatile Organic Compounds (G/L)..... 766.9686

SECTION XII - Ingredients/Identity Information

Ingredient #..... 01

Ingredient Name..... *OXO-TRIDECYL ACETATE (1-5%)

CAS Number..... 108419358

Proprietary..... NO

Percent..... 5

OSHA PEL..... NE

ACGIH TLV..... NE

Ingredient #..... 02

Ingredient Name..... ETHANOL, 2-(2-METHOXYETHOXY)- (1-5%)

CAS Number..... 111773

Proprietary..... NO

Percent..... 5

OSHA PEL..... NE

ACGIH TLV..... NE

Ingredient #..... 03



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Ingredient Name..... ETHANOL, 2-(2-BUTOXYETHOXY)- (1-5%)
CAS Number..... 112345
Proprietary..... NO
Percent..... 5
OSHA PEL..... NE
ACGIH TLV..... NE
Ingredient #..... 04
Ingredient Name..... *RED IRON OXIDE (1-5%)
CAS Number..... 1309371
Proprietary..... NO
Percent..... 5
OSHA PEL..... 6 MG/M3
ACGIH TLV..... 10 MG/M3
Ingredient #..... 05
Ingredient Name..... *CARBON BLACK (0.5-1.5%)
CAS Number..... 1333864
Proprietary..... NO
Percent..... 1.5
OSHA PEL..... 3.5 MG/M3
ACGIH TLV..... 3.5 MG/M3
Ingredient #..... 06
Ingredient Name..... *TITANIUM DIOXIDE (15-40%)
CAS Number..... 13463677
Proprietary..... NO
Percent..... 40
OSHA PEL..... 10 MG/M3
ACGIH TLV..... 10 MG/M3
Ingredient #..... 07
Ingredient Name..... 2-PROPANOL, 1-(2-BUTOXY-1-
METHYLETHOXY)- (1-5%)
CAS Number..... 29911282
Proprietary..... NO
Percent..... 5
OSHA PEL..... NE
ACGIH TLV..... NE
Ingredient #..... 08
Ingredient Name..... SILICA (0.5-1.5%)
CAS Number..... 7631869
Proprietary..... NO
Percent..... 1.5
OSHA PEL..... 0.20 MG/M3
ACGIH TLV..... 10 MG/M3

NOTICE: For additional information, contact BIOENVIRONMENTAL/7-4551

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