

# MATERIAL SAFETY DATA SHEET GRAPHITE CEMENT

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#### **SECTION I - Material Identity**

Part Number/Trade Name Graphite Cement

National Stock Number n/a
CAGE Code n/a
Part Number Indicator n/a
MSDS Number 2628
HAZ Code B

## **SECTION II - Manufacturer's Information**

Manufacturer Name Coidan Graphite Products Ltd

Street Station Road
Address 2 Kirk Hammerton

Address 3 YORK Country UK

Post Code YO26 8DQ Emergency Phone (01423) 330492 Information Phone (01423) 330492



MSDS Preparer's Information

Date MSDS Prepared/Revised MAY 2011

Active Indicator n/a

## **SECTION III - Physical/Chemical Characteristics**

Hazard Storage Compatibility Code NR
NRC Licence Number NR
Net Propellant Weight (Ammo) NR

Appearance/Odor Black Liquid
Boiling Point 82 DEG C

Melting Point NR Vapor Pressure NR Vapor Density NR Specific Gravity 1.1 **Decomposition Temperature** NR **Evaporation Rate** NR Solubility in Water <2 Percent Volatiles by Volume <40 Chemical pH NR Corrosion Rate NR Container Pressure Code 4 Temperature Code 8 **Product State Code** U

#### **SECTION IV - Fire and Explosion Hazard Data**

Flash Point 11 C

Flash Point Method Close cup

Lower Explosion Limit NR
Upper Explosion Limit NR

Extinguishing Media USE WATER FOG, CARBON DIOXIDE, DRY CHEMICAL OR FOAM

Special Fire Fighting Procedures WEAR FULL FIRE FIGHTING PROTECTIVE CLOTHING AND SELF

CONTAINED BREATHING APPARATUS. MATERIAL NEAR FIRE SHOULD BE COOLED WITH WATER SPARY OR FOG. CAUTION

WHEN US

Unusual Fire/Explosion Hazards THERMAL DECOMPOSITION OR COMBUSTION MAY PRODUCE

DENSE SMOKE, OXIDES OF CARBON, AS WELL AS LOW MOLECULAR WEIGHT ORGANIC COMPOUNDS WHOSE

COMPOSITIONS HAVE NOT BEEN IDENTIFIED



#### **SECTION V - Reactivity Data**

Stability YES

Stability Conditions to Avoid HIGH TEMPERATURES

Materials to Avoid AVOID CONTACT WITH STRONG OXIDIZING AND REDUCING

AGENTS AND STRONG ACIDS AND BASES

Hazardous Decomposition Products SMOKE, OXIDES OF CARBON, LOW MOLECULAR WEIGHT

ORGANIC COMPOUNDS WHOSE COMPOSITIONS HAVE NOT

BEEN CHARACTERISED

Polymerization Conditions to Avoid HEXAMTHYLENETETRAMINE REACTS VIOLENTLY WITH NA202

#### **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 LIQUID FURFURYL ALCOHOL AND HIGH CONCENTRATIONS

OF VAPOURS MAY BE HIGHLY IRRITATING TO THE EYES, SKIN, MUCOUS MEMBRANES AND RESPIRATORY TRACT. INGESTION MAY CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, CRAMPING AND VOMITING. EXPOSURE TO HIGH CONCENTRATIONS OF VAPOURS MAY CAUSE HEADACHE, DIZZINESS, NAUSEA, DISORIENTATION, FA

Symptoms of Overexposure IRRITATING TO THE EYES, SKIN, MUCOUS MEMBRANES, RESPI-

RATORY TRACT. DERMATITIS. COUGH, SHORTNESS OF BREATH

AND DECREASE IN PULMONARY FUNCTION

Medical Conditions Aggravated

by Exposure

PRE-EXISTING PULMONARY, DERMAL, KIDNEY, AND LIVER DISORDERS MAY POSSIBLY BE AGGRAVATED BY PROLONGED EXPOSURE TO HIGH CONCENTRATIONS OF THE MATERIALS

Emergency/First Aid Procedures INHALE: REMOVE TO FRESH AIR, SEEK MEDICAL ATTENTION.

EYES: FLUSH WITH WATER FOR 15 MIN. SEEK MEDICAL ATTENTION IF IRRITATION DEVELOPS. SKIN: WASH THE AFFECTED AREA WITH MILD SOAP AND WATER. SEEK MEDICAL ATTENTION IF IRRITATION DEVELOPS OR PERSISTS. INGEST: GIVE TWO GLASSES OF WATER

TO DILUTE AND INDUCE VOMITING

#### **SECTION VII - Precautions for Safe Handling and Use**

Steps if Material Released/Spilled ELIMINATE ALL IGNITION SOURCES, ISOLATE SPILL, EVACUATE

PERSONNEL. PUMP INTO CONTAINERS. ABSORB RESIDUE WITH CLAY, SAND OR OTHER SUITABLE MATERIAL. DO NOT ALLOW MATERIAL OR RINSE WATER TO ENTER STORM OR SANITARY

**SEWERS** 

Waste Disposal Method IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL

**REGULATIONS** 

Handling and Storage Precautions STORE AT 6 – 20 DEG C IN LABELED, CLOSED CONTAINERS AWAY

FROM HEAT, SPARKS, OPEN FLAMES AND OTHER SOURCES OF IGNITION. DO NOT STORE WITH OR NEAR INCOMPATIBLE

**CHEMICALS** 



Other Precautions CARBON AND GRAPHITE DUSTS ARE ELECTRICALLY CONDUCTIVE.

ACCUMULATIONS OF DUSTS MAY CAUSE SHORTING OF ELECTRICAL CIRCUITS. CARE SHOULD BE TAKEN TO SEAL ELECTRICAL CIRCUITS AND SWITCHES THAT MAY BE AFFECTED.

INCLUDES OUTSIDE ELECTRICAL EQUIPMENT

#### **SECTION VIII - Control Measures**

Respiratory Protection 1/2 FACE RESPIRATOR WITH ORGANIC VAPORS AND

PARTICULATE CARTRIDGES

Ventilation LOCAL EXHAUST

Protective Gloves BUTYL RUBBER GLOVES
Eye Protection CHEMICAL SPLASH GOGGLES

Other Protective Equipment WHERE NORMAL WORK CLOTHES MAY BECOME CONTAMINATED

BY PRODUCT, PROTECTIVE BUTYL RUBBER COATED COVERALLS

ARE RECOMMENDED

Work Hygenic Practices THOROUGHLY WASH ANY CONTAMINATED CLOTHING

**BEFORE REUSE** 

Disposal Code O

#### **SECTION IX - Label Data**

Protect Eye YES
Protect Skin YES
Protect Respiratory YES

Chronic Indicator UNKNOWN
Contact Code UNKNOWN
Fire Code UNKNOWN
Health Code UNKNOWN
React Code UNKNOWN

#### **SECTION X - Transportation Data**

Container Quantity 15
Unit of Measure LB

#### **SECTION XI - Site Specific/Reporting Information**

Volatile Organic Compounds (P/G) 0
Volatile Organic Compounds (G/L) 0



## **SECTION XII - Ingredients/Identity Information**

Ingredient # 01

Ingredient Name 1,3,5,7-TETRAAZATRICYCLO[3.3.1.13,7]DECANE

CAS Number 100970 Proprietary NO

Ingredient # 02

Ingredient Name (POWDER) CARBON

CAS Number 7440440
Proprietary NO

Ingredient # 03

Ingredient Name (POWDER) PHENOLIC RESIN

CAS Number 9403354
Proprietary NO

Ingredient # 04

Ingredient Name (POWDER) TRANSIL OIL

CAS Number 64742456

Proprietary NO

Ingredient # 05

Ingredient Name (POWDER) HEXAMETHYLENETETRAMINE

CAS Number 108970 Proprietary NO

Ingredient # 06

Ingredient name Isopropanol CAS Number 67630 Proprietary NO