

Reference Number:

Issue:

Date: September 2012

1. PRODUCT IDENTIFICATION**Centrecoat Water Based Line Marking Paint - Black****1.3. Details of the supplier of the safety data sheet****Company name:** Promain UK Limited, Promain House, Pierson Court, Hitchin, Herts. SG4 0TY.**Tel:** +44 01462 421333 (During Office Hours) **Email:** info@promain.co.uk**2. COMPOSITION**

Chemical Name	CAS#	EINECS	Common Name	*% Content
Carbon Black	1333-86-4	215-609-9	Ci 77266	0.1 – 1%
Methyl Alcohol	67-56-1	200-659-6	Methanol	3 - 7%
Silicon Dioxide	14808-60-7	238-878-4	Sand (Quartz)	1 - 5%

3. HAZARD IDENTIFICATION**Information Regarding Finished Product****Potential Health Effects****Acute Toxicity****EYES** May cause irritation.**SKIN** Harmful if absorbed through skin. May cause irritation.**INHALATION** Harmful by inhalation. May cause central nervous system depression with nausea, headache, dizziness, vomiting, and in co-ordination. Sanding and grinding dust may be harmful if inhaled.**INGESTION** Harmful if swallowed. May cause blindness if swallowed. May cause additional affects as listed under "Inhalation".**CHRONIC EFFECTS** Inhalation, ingestion, or skin absorption of methanol can cause blindness. This product contains crystalline silica (quartz) in a non-respirable form. Inhalation of crystalline silica is unlikely to occur from exposure to this product. Crystalline silica (quartz) has been classified by the International Agency for Research on Cancer (IARC) as a known human carcinogen (Group 1). This product contains titanium dioxide in a non-respirable form. Inhalation of titanium dioxide is unlikely to occur from exposure to this product. Titanium dioxide has been classified by the International Agency for Research on Cancer (IARC) as possibly carcinogenic to humans (Group 2B) by inhalation.

AGGRAVATED MEDICAL CONDITIONS

Respiratory disorders. Lungs. Pre-existing eye disorders. Skin disorders. Liver disorders. Kidney disorders. Central nervous system.

INTERACTIONS WITH OTHER CHEMICALS

Use of alcoholic beverages may enhance toxic effects.

ENVIRONMENTAL HAZARD

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

See Section 12 for additional Ecological Information

INFORMATION REGARDING CONSTITUENTS

METHYL ALCOHOL

Emergency Overview

OSHA Hazards Flammable Liquid, Target Organ Effect, Toxic by ingestion, Toxic by skin absorption, Irritant

Target Organs Eyes, Kidney, Liver, Heart, Central Nervous System

GHS Classification

Flammable Liquids (Category 2)
Acute Toxicity, Oral (Category 3)
Acute Toxicity, Dermal (Category 3)
Skin Irritation (Category 2)
Eye Irritation (Category 2A)
Specific target organ toxicity - single exposure (Category 1)

GHS Label elements, including precautionary statements

Pictogram



Signal word **Danger**

Hazard statement(s)

H225 Highly flammable liquid and vapour
H301 + H311 Toxic if swallowed or in contact with skin
H315 Causes skin irritation
H319 Causes serious eye irritation
H370 Causes damage to organs

Precautionary statement(s)

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking
P260 **DO NOT** breathe dust/ fume/ gas/ mist/ vapours/ spray
P280 Wear protective gloves/ protective clothing
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTRE or doctor/ physician
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P307 + P311 IF exposed: Call a POISON CENTRE or doctor/ physician

SAND (QUARTZ)

Emergency Overview

OSHA Hazards Target Organ Effect

Target Organs Lungs

GHS Classification Specific target organ toxicity - repeated exposure, Inhalation (Category 2)

GHS Label elements, including precautionary statements

Pictogram



Signal word **Warning**

Hazard Statements

H372 May cause damage to organs (lungs, kidneys) through prolonged or repeated exposure if inhaled

Precautionary Statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray

CARBON BLACK or Ci 77266

OSHA Hazards Irritant

GHS Classification Eye Irritation (Category 2A)
Specific target organ toxicity – single exposure (Category 3)

GHS Label elements, including precautionary statements

Pictogram



Signal word **Warning**

Hazard statement(s)

H319 Causes serious eye irritation
H335 May cause respiratory irritation

Precautionary statement(s)

P261 Avoid breathing dust/fume/gas/mist/vapours/spray
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

4. FIRST AID MEASURES

EYES Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.

SKIN	Wash off immediately with plenty of water. Remove and wash contaminated clothing before reuse. If symptoms persist, call a physician.
INHALATION	Move to fresh air. If breathing is difficult, give oxygen. If symptoms persist, call a physician.
INGESTION	DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Drink plenty of water. If symptoms persist, call a physician.
NOTES TO PHYSICIAN	Treat symptomatically.

5. FIRE FIGHTING MEASURES

FLASH POINT	>201° F/ 93.8° C
AUTO-IGNITION TEMPERATURE	Not Determined
LIMITS OF FLAMMABILITY	LEL: Not Determined UEL: Not Determined
EXTINGUISHABLE MEDIA	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
PPE FOR FIRE FIGHTERS	Fire fighters should wear self-contained breathing apparatus in the positive pressure mode with full-face piece when there is the possibility of exposure to smoke, fumes or hazardous decomposition products.
SPECIFIC HAZARDS	May emit toxic fumes when burning.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS AND PPE

Use personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing.

ENVIRONMENTAL PRECAUTIONS **DO NOT** allow product to enter drains or meet the sanitary sewer system.

METHOD FOR CONTAINMENT AND CLEAN UP AND EMERGENCY CLEAN UP

Use personal protective equipment. Dike far ahead of liquid spill for later disposal. Soak up with inert absorbent material. Clean up promptly by sweeping or vacuum. Keep in suitable and closed containers for disposal.

7. HANDLING & STORAGE

PRECAUTIONS FOR SAFE HANDLING

Ensure adequate ventilation. Avoid breathing vapours or mists. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. **DO NOT** eat, drink or smoke when using this product.

Practice good personal hygiene.

CONDITIONS FOR SAFE STORAGE

Keep in properly labelled container.
Store in a cool dry place. Keep out of reach of children.

INCOMPATIBLE MATERIALS

None known for this product.

8. EXPOSURE CONTROLS & PERSONAL PROTECTION

Chemical Name	ACGIH	NIOSH	OSHA
Ci 77266 (Carbon Black)	TWA = 3.5 mg/m ³	TWA: 3.5 mg/m ³ (vacated) TWA: 3.5 mg/m ³	IDLH: 1750 mg/m ³ TWA = 3.5 mg/m ³ TWA = 0.1 mg/m ³ Carbon Black in presence of Polycyclic aromatic hydrocarbons PAH
Methyl alcohol	STEL = 250 ppm TWA: 200 ppm S*	TWA: 200 ppm TWA: 260 mg/m ³ (vacated) TWA: 200 ppm (vacated) TWA: 260 mg/m ³ (vacated) STEL: 250 ppm (vacated) STEL: 325 mg/m ³ (vacated) S*	IDLH: 6000 ppm TWA: 200 ppm TWA: 260 mg/m ³ STEL: 325 mg/m ³ STEL: 250 ppm
Sand (Quartz)	TLV TWA= 0.025 mg/m ³ Respirable	TLV-TWA 0.05mg/m ³	PEL TWA = 10mg/m ³ (Respirable) %SiO ₂ +2 PEL TWA = 30mg/m ³ (Total Dust) - % SiO ₂ +2

ACGIH American Conference of Governmental Industrial Hygienists**NIOSH** National Institute of Occupational Safety and Health**OSHA** Occupational Safety and Health Administration**Other Exposure Guidelines** Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962(11th Cir., 1992).**ENGINEERING MEASURES** Showers, Eyewash stations, Ventilation system**PERSONAL PROTECTIVE EQUIPMENT****EYE/FACE PROTECTION** Safety glasses with side-shields.**SKIN AND BODY PROTECTION** Protective gloves.**RESPIRATORY PROTECTION** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.**HYGIENE MEASURES** **DO NOT** eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Provide regular cleaning of equipment, work area and clothing.

9. PHYSICAL & CHEMICAL PROPERTIES

TEST	RESULT
Appearance	Black, Emulsion
Odour	Slight , Ammonia
Odour Threshold	NA
pH	ND
Melting pt./Freezing pt.	ND
Initial boiling.pt. and boiling. range	ND
Flash pt.	>201°F / 93.8°C
Evaporation Rate	ND
Flammability in Air	ND
Specific Gravity	1.55 – 1.75

TEST	RESULT
Explosion Limits	LEL= NA UEL=NA
Vapour Pressure	NA
Vapour Density	NA
Relative Density	ND
Solubility	Yes
Partition Coefficient	NA
Auto-ignition temp.	NA
Decomposition temp.	ND
VOC Content (%)	3.6416
EPA VOC (g/l)	<100

10. STABILITY & REACTIVITY

REACTIVITY This material is non-reactive.

STABILITY Material is stable.

POSSIBILITY OF HAZARDOUS REACTION
None Known

CONDITIONS TO AVOID Dust Formation

INCOMPATIBLE MATERIALS None Known

HAZARDOUS DECOMPOSITION PRODUCTS
Carbon Oxides, Nitrogen Oxides

HAZARDOUS POLYMERIZATION Will not occur

11. TOXICOLOGICAL INFORMATION

Product Information Harmful if swallowed, inhaled, or absorbed through the skin.

Component Information

ACUTE TOXICITY

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sand(Quartz)	500 mg/kg (Rat)	ND	ND
Ci 77266	>15400 mg/kg (Rat)	>3 mg/kg (rabbit)	ND
Methyl Alcohol	5628 mg/kg (Rat)	15800 mg/kg (Rabbit)	83.2 mg/L (Rat) 4h 64000 ppm (Rat) 4h

Product Information

CHRONIC TOXICITY

Inhalation, ingestion, or skin absorption of methanol can cause blindness. This product contains crystalline silica (quartz) in a non-respirable form. Inhalation of crystalline silica is unlikely to occur from exposure to

this product. Crystalline silica (quartz) has been classified by the International Agency for Research on Cancer (IARC) as a known human carcinogen (Group 1). This product contains titanium dioxide in a non-respirable form. Inhalation of titanium dioxide is unlikely to occur from exposure to this product. Titanium dioxide has been classified by the International Agency for Research on Cancer (IARC) as possibly carcinogenic to humans (Group 2B) by inhalation.

Carcinogenicity

Chemical Name	ACGIH	IARC	NTP	OSHA
Ci 77266	ND	Group 2B	ND	X
Sand (Quartz)	A2	Group 1	Known	X

Regulatory Legend

ACGIH: (American Conference of Governmental Industrial Hygienists)

- A2 Suspected Human Carcinogen
- A3 Animal Carcinogen
- A4 Not Classifiable as a Human Carcinogen

IARC: (International Agency for Research on Cancer)

- Group 1 Carcinogenic to Humans
- Group 2A Probably carcinogenic to humans
- Group 2B Possibly Carcinogenic to Humans
- Group 3 Not Classifiable as to its Carcinogenicity to Humans

NTP: (National Toxicity Program)

Known - Known Carcinogen

OSHA: (Occupational Safety & Health Administration)

X – Present

Target Organ Effects Respiratory system. Liver. Kidney. Central nervous system (CNS).

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna
Methyl Alcohol	ND	LC50 96 h: 13500 – 17600 mg/L flow-through (Lepomis macrochirus) LC50 96 h: 18 - 20 mL/L static (Oncorhynchus mykiss) LC50 96 h: 19500 - 20700mg/L flow-through (Oncorhynchus mykiss) LC50 96 h: = 28200 mg/L flow-through (Pimephales promelas) LC50 96 h: > 100 mg/L static (Pimephales promelas)	EC50 = 39000 mg/L 25 min EC50 = 40000 mg/L 15 min EC50 = 43000 mg/L 5 min	

Ci 77266	ND	ND	ND	EC50 24 h: 5600 mg/L (Daphnia magna)
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Persistence and Degradability No Data

Bioaccumulative Potential No Data

Mobility in the Soil No Data

Other Adverse Effects No Data

This substance does not leach metals or other RCRA (Resource Conservation and Recovery Act) listed TCLP (Toxic Characteristic Leaching Procedure) hazardous substances at concentrations that would make the product a hazardous waste.

13. DISPOSAL INFORMATION

Waste Disposal Methods This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult the appropriate state, regional, or local regulations for additional requirements.

Contaminated Packaging **DO NOT** re-use empty containers.

US EPA Waste Number U154

14. TRANSPORT INFORMATION

This product is not classified as dangerous for carriage according to international transport regulations.

DOT Not regulated (Product as shipped)

Annex II of MARPOL 73/78 and IBC Not considered a noxious liquid

TDG Not regulated
MEX Not regulated
ICAO Not regulated
IATA Not regulated
IMDG/IMO Not regulated

15. REGULATORY INFORMATION

U.S. Federal Regulations:

SARA 313 This product contains chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Methyl Alcohol

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

None

CERCLA This material, as supplied, contains substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

Methyl Alcohol

U.S. State Regulations:

California Proposition 65 This product contains the following Proposition 65 chemicals:

Chemical Name	CAS-No	California Prop. 65
Sand (Quartz)	14808-60-7	Carcinogen
Ci 77266 (Carbon Black)		Carcinogen

International Regulations Legend:

Country or Region	Inventory Name
Australia	Australian Inventory of Chemical Substance (AICS)
Canada	Domestic Substance List (DSL)
Canada	Non-Domestic Substance List (NDSL)
China	Inventory of Existing Chemical Substances in China (IECSC)
Europe	European Inventory of New and Existing Chemicals (EINECS)
Europe	European List of Notified Chemical Substances (ELINCS)
Japan	Inventory of Existing and New Chemical Substances (ENCS)
Korea	Existing Chemical List (ECL)
New Zealand	New Zealand Inventory (NZI)
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory

See Matrix Below for Listings:

ND equals No Data
 X equals Listed

Chemical Name	AICS	DSL	NDSL	IECSC	EINECS	ELINCS	ENCS	ECL	NZI	PICCS	TSCA
Ci 77266	X	X	ND	X	X	ND	ND	X	X	ND	X
Methyl Alcohol	X	X	ND	X	X	ND	X	X	X	X	X
Sand (Quartz)	X	X	ND	X	X	ND	X	X	X	ND	X

Mexico (Exposure Limits):

Methyl Alcohol

Mexico: TWA= 200 ppm
 Mexico: TWA= 260 mg/m³
 Mexico: STEL= 250 ppm
 Mexico: STEL= 310 mg/m³

Titanium Dioxide

Mexico: TWA= 10 mg/m³
 Mexico: STEL= 20 mg/m³

Quartz

Mexico: TWA= 0.1 mg/m³

Canada:

The classification below is based on constituent data not the finished product.

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

WHMIS Hazard Class

D2A Very toxic materials
 D1B Toxic Materials
 D2B Toxic Materials



16. OTHER INFORMATION

NFPA Hazard Classification

Health: 1 Flammability: 1 Reactivity: 0 Special Hazards: None

HMIS Hazard Classification

Health: 2 Flammability: 1 Physical Hazard: 0 PPE: B

The above data is provided for your information and your attention is drawn to the appropriate package labelling. Users of the product must ensure its proper use in accordance with good industrial practice, proper medical advice and any official or Government notices or publications. This information is furnished gratuitously independent of any sale or the product and does not form part of any contract for sale, nor does it constitute any representation, warranty or condition of merchantability or fitness for a particular purpose.