

Safety Data Sheet

according to OSHA Hazard Communication
29 CFR Part 1910.1200

according to Regulation (EC)
No. 1907/2006 Article 31

Section 1. Identification

Product Name: Centrecoat Light Reflective Paint

Product Type: WB Paint

Recommended Use: Traffic Markings

Supplied by: Promain UK Limited
Promain House, Knowl Piece Business Park
Hitchin, Hertfordshire
SG4 0TY

Emergency Telephone: Promain 01462 421333

Section 2. Hazard(s) identification

EMERGENCY OVERVIEW: This product contains a component suspected of causing cancer. However, it is in a non-respirable form and inhalation is unlikely to occur from exposure. This classification is relevant when exposed to dust or powder form only (e.g. sanding, grinding).

Classification

Symbol(s) of Product



Signal Word

Warning

GHS Named Chemicals On Label

Titanium Dioxide, Crystalline Silica, Quartz, Methanol

GHS HAZARD STATEMENTS

Acute Toxicity, Inhalation, category 4	H332	Harmful if inhaled.
Carcinogenicity, category 2	H351	Suspected of causing cancer.
STOT, repeated exposure, category 2	H373	May cause damage to organs through prolonged or repeated exposure.

GHS PRECAUTIONARY STATEMENTS

P201	Obtain special instructions before use.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P281	Use personal protective equipment as required.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.

P314

Get medical advice/attention if you feel unwell.

Section 3. Composition/Information on ingredients

<u>Chemical Name</u>	<u>CAS-No.</u>	<u>Wt. %</u>	<u>GHS Symbols</u>	<u>GHS Statements</u>
Titanium Dioxide	13463-67-7	2.5-10	GHS08	H351
Methanol	67-56-1	< 5.0	GHS02-GHS06- GHS08	H225-302-330-370
Crystalline Silica, Quartz	14808-60-7	1.0-2.5	GHS08	H351-373

<u>Chemical Name</u>	<u>CAS-No.</u>	<u>EINECS No.</u>	<u>REACH Reg No.</u>	<u>M-Factors</u>
Titanium Dioxide	13463-67-7	236-675-5	not available	0
Methanol	67-56-1	200-659-6	01-2119433307-44-XXXX	0
Crystalline Silica, Quartz	14808-60-7	238-878-4	not available	0

The text for GHS Hazard Statements shown above (if any) is given in the "Other information" Section.

Section 4. First-aid measures



FIRST AID - INHALATION: Move to fresh air. Give oxygen or artificial respiration if needed. Consult a physician if symptoms persist.

FIRST AID - SKIN CONTACT: Wash affected area immediately with soap and plenty of water. Remove contaminated clothing and launder before reuse. Consult a physician if symptoms persist.

FIRST AID - EYE CONTACT: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult a physician if symptoms persist.

FIRST AID - INGESTION: Do NOT induce vomiting. If conscious, rinse mouth and drink plenty of water. Never give anything by mouth to an unconscious person. Consult a physician.

Section 5. Fire-fighting measures

UNUSUAL FIRE AND EXPLOSION HAZARDS: None expected.

SPECIAL FIREFIGHTING PROCEDURES: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

EXTINGUISHING MEDIA: Alcohol Foam, Carbon Dioxide, Dry Chemical, Foam, Water Fog

Section 6. Accidental release measures

ENVIRONMENTAL PRECAUTIONS: Avoid release to the environment. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water.

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Use personal protective equipment. Ensure adequate ventilation. Dike far ahead of liquid spill for later disposal. Soak up with inert absorbent material. Take up mechanically. Keep in suitable and closed containers for disposal.

Section 7. Handling and storage



HANDLING: Ensure adequate ventilation. Avoid breathing vapor, mists or dust. Avoid contact with eyes, skin, and clothing. Wear appropriate personal protective equipment. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Observe good industrial hygiene practices. Avoid dust formation.

STORAGE: Keep container tightly closed in a dry and well-ventilated place. Keep in properly labeled containers.

Section 8. Exposure controls/personal protection

Ingredients with Occupational Exposure Limits

<u>Chemical Name</u>	<u>ACGIH TLV-TWA</u>	<u>ACGIH-TLV STEL</u>	<u>OSHA PEL-TWA</u>	<u>OSHA PEL-CEILING</u>
Titanium Dioxide	10 mg/m3		15 mg/m3	
Methanol	200 PPM	250 PPM	200 PPM	
Crystalline Silica, Quartz	0.025 mg/m3		0.05 mg/m3	

<u>Name</u>	<u>Percentage</u>	<u>VME mg/m3</u>	<u>VME ppm</u>	<u>OEL Nota</u>
Titanium Dioxide	2.5-10	10	0	15 mg/m3
Methanol	1.0-2.5	266	200	200 PPM

Further Advice: MEL = Maximum Exposure Limit OES = Occupational Exposure Standard SUP = Supplier's Recommendation
Sk = Skin Sensitizer N.E. = Not Established

Personal Protection



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.



SKIN PROTECTION: Protective gloves



EYE PROTECTION: Safety glasses with side-shields.



OTHER PROTECTIVE EQUIPMENT: Eyewash stations, safety showers, ventilation systems.



HYGIENIC PRACTICES: When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing. Wash hands before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practice.

Section 9. Physical and chemical properties

Appearance:	white	Physical State:	Liquid
Odor:	Slight, Ammonia	Odor Threshold:	Not Established
Density, g/cm3:	1.683	pH:	NI
Freeze Point, °C:	NI	Viscosity:	NI
Solubility in Water:	Insoluble	Partition Coefficient, n-octanol/ water:	NI
Decomposition Temp., °C:	NI		
Boiling Point, °C:	N.I.	Explosive Limits, vol%:	N.I.
Combustibility:	Does not Support Combustion	Flash Point, °C:	>94
Evaporation Rate:	Slower than Diethyl Ether	Auto-ignition Temp., °C:	NI
Vapor Density:	Heavier than air	Vapor Pressure:	NI

(See "Other information" Section for abbreviation legend)

Section 10. Stability and reactivity

STABILITY: Stable under recommended storage conditions.

CONDITIONS TO AVOID: Dust formation. Do not freeze.

INCOMPATIBILITY: None known based on information supplied.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon oxides. Nitrogen oxides.

HAZARDOUS POLYMERIZATION: Hazardous polymerisation does not occur.

Section 11. Toxicological information



Practical Experiences

EFFECT OF OVEREXPOSURE - INHALATION: Harmful if inhaled. Inhalation may cause irritation to the respiratory tract (nose, mouth, mucous membranes). Prolonged, repeated or high exposures may cause central nervous system depression leading to headaches, nausea, drowsiness, dizziness, and possibly narcosis. In extreme cases, may cause loss of consciousness. May cause central nervous system depression with nausea, headache, dizziness, vomiting, and incoordination. Sanding and grinding dust may be harmful if inhaled.

EFFECT OF OVEREXPOSURE - SKIN CONTACT: Direct skin contact may cause irritation.

EFFECT OF OVEREXPOSURE - EYE CONTACT: Direct eye contact may cause irritation.

EFFECT OF OVEREXPOSURE - INGESTION: Ingestion may cause irritation to mucous membranes. May cause gastrointestinal irritation, nausea, vomiting, and diarrhea. May cause gastrointestinal disturbances with dizziness and central nervous system depression.

EFFECT OF OVEREXPOSURE - CHRONIC HAZARDS: This product contains titanium dioxide in a non-respirable form. Inhalation of titanium dioxide is unlikely to occur from exposure to this product. Inhalation exposure to respirable levels of crystalline silica may cause respiratory impairment and lung damage. 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. Inhalation, ingestion, or skin absorption of methanol can cause blindness.

Acute Toxicity Values

The acute effects of this product have not been tested. Data on individual components are tabulated below:

<u>CAS-No.</u>	<u>Name according to EEC</u>	<u>Oral LD50</u>	<u>Dermal LD50</u>	<u>Gas LC50</u>
13463-67-7	Titanium Dioxide	> 10000 mg/kg rat	> 10000 mg/kg rabbit	>20001 ppm
67-56-1	Methanol	1187 -2769 mg/kg rat	17100 mg/kg rabbit	128.2 PPM - 4 h rat
14808-60-7	Crystalline Silica, Quartz	>2000 mg/kg	> 2000 mg/kg	>20001 ppm

N.I. - No Information

Section 12. Ecological information

ECOLOGICAL INFORMATION: The environmental impact of this product has not been fully investigated.

Further Ecological Information

Contains the following ingredients which are classified as water dangerous according to EEC directive No. 76/464/EEC in percentages > 1%.

<u>CAS-No.</u>	<u>Name according to EEC</u>	<u>Bio. Conc. Factor (BCF)</u>	<u>Octanol-water par. Coeff (KOW)</u>
13463-67-7	Titanium Dioxide	not available	not available
67-56-1	Methanol	1	-0.77
14808-60-7	Crystalline Silica, Quartz	not available	not available

Section 13. Disposal considerations



Product

DISPOSAL METHOD: This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). Dispose of contents/ container in accordance with the local/regional/national/international regulations. Do not re-use empty containers.

European Waste Code: 080112 waste pait/var.w/o.org. solv/DS

Uncleaned Packaging

European Waste Code: 150110 packaging dangerous residuals

Section 14. Transport information

SPECIAL TRANSPORT PRECAUTIONS: No Information

Road Transport

UN Number:	Not regulated
ADR/RID Class:	Not regulated
Packing Group:	No Information
Shipping Name:	Not regulated
Primary Shipping Hazard:	No Information
Road Tunnel Transport Code:	Not regulated

Sea Transport

UN Number:	Not regulated
IMDG/GGVSee Class:	Not regulated
EmS-No:	Not regulated
Packing Group:	No Information
Shipping Name:	Not regulated
Primary Shipping Hazard:	No Information
Marine Pollutant:	Not A Marine Pollutant
Shipping Hazard(Marine Pollutant):	No Information

Air Transport

UN Number:	Not regulated
ICAO/IATA Class:	Not regulated
Packing Group:	No Information
Shipping Name:	Not regulated
Primary Shipping Hazard:	No Information

Section 15. Regulatory information**U.S. Federal Regulations:****CERCLA - SARA Hazard Category**

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Acute Health Hazard, Chronic Health Hazard

SARA SECTION 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

<u>Chemical Name</u>	<u>CAS-No.</u>
Methanol	67-56-1
Ammonium hydroxide	1336-21-6

TOXIC SUBSTANCES CONTROL ACT:

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

<u>Chemical Name</u>	<u>CAS-No.</u>
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Titanium Dioxide	13463-67-7
Methanol	67-56-1
Crystalline Silica, Quartz	14808-60-7
Silicon dioxide, amorphous	7631-86-9
Ethoxylated Nonylphenol, Branched	68412-54-4
Ethoxylated Octylphenol	9002-93-1
Ammonium hydroxide	1336-21-6
Benzisothiazolinone	2634-33-5
Sodium hydroxide	1310-73-2

U.S. State Regulations:

NEW JERSEY RIGHT-TO-KNOW:

The following materials are non-hazardous, but are among the top five components in this product.

<u>Chemical Name</u>	<u>CAS-No.</u>
Calcium Carbonate	1317-65-3
Water	7732-18-5
Acrylic polymer	9003-01-4

PENNSYLVANIA RIGHT-TO-KNOW

The following non-hazardous ingredients are present in the product at greater than 3%.

<u>Chemical Name</u>	<u>CAS-No.</u>
Calcium Carbonate	1317-65-3
Water	7732-18-5
Acrylic polymer	9003-01-4

CALIFORNIA PROPOSITION 65 CARCINOGENS

Warning: The following ingredients present in the product are known to the state of California to cause Cancer:

<u>Chemical Name</u>	<u>CAS-No.</u>
Titanium Dioxide	13463-67-7
Crystalline Silica, Quartz	14808-60-7

CALIFORNIA PROPOSITION 65 REPRODUCTIVE TOXINS

Warning: The following ingredients present in the product are known to the state of California to cause birth defects, or other reproductive hazards.

No Proposition 65 Reproductive Toxins exist in this product.

International Regulations: As follows -

CANADIAN WHMIS:

This SDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

WHMIS Class: D1B, D2A

Denmark

B-Value: 0.000000

France

Storage Conditions: No Information

Professional Illness Table:

<u>CAS Number</u>	<u>Chemical Name</u>	<u>Professional Illness</u>
13463-67-7	Titanium Dioxide	not available
67-56-1	Methanol	not available
14808-60-7	Crystalline Silica, Quartz	not available

Germany**VbF-Class:** No Information**WGK-class:** 1

Remarks: WGK 0 = in general not a water pollutant
 WGK 1 = weak water pollutant
 WGK 2 = water pollutant
 WGK 3 = severe water pollutant

Processing restrictions:***Incident Regulation:**

No Information

Spain**Storage Conditions:** No Information**Switzerland****VOC-Value:** 2.12**United Kingdom****Storage Conditions:** No Information**Section 16. Other information, including date of preparation of the last revision****Revision Date:** 4/5/2016 **Supersedes Date:** 4/4/2016**Reason for revision:** Product Composition Changed**Datasheet produced by:** Regulatory Department**HMIS Ratings:**

Health:	2	Flammability:	1	Reactivity:	0	Personal Protection:	X
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NFPA Ratings:

Health:	2	Flammability:	1	Reactivity:	0	Hazards:	N.I.
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Volatile Organic Compounds, gr/ltr: 93**Text for GHS Hazard Statements shown in Section 3 describing each ingredient:**

H225 Highly flammable liquid and vapour.
 H302 Harmful if swallowed.
 H330 Fatal if inhaled.
 H351 Suspected of causing cancer.
 H370 Causes damage to organs.
 H373 May cause damage to organs through prolonged or repeated exposure.

Icons for GHS Pictograms shown in Section 3 describing each ingredient:

GHS02



GHS06



GHS08



Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined, N.I. - No Information

The information on this sheet corresponds to our present knowledge. It is not a specification and it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage, and use of the product. It is not applicable to unusual or non-standard uses of the product where instructions and recommendations are not followed. Any use of the product not in conformance with this SDS or in combination with any other product or process is the responsibility of the user.