SAFETY DATA SHEET

Road Marking Thermoplastic - Yellow Grades

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier
Product Name
Road Marking Thermoplastic - Yellow Grades
Product No.
RS Clare codes: D1501 - D1518 inclusive
Synonyms, Trade Names
PLASTALUX, PLASTALINE, PLASTASPRAY, PLASTARIB - Yellow / Primrose / Deep Cream colour shades
Container Size
Powder mix supplied in meltable polythene bags (net weight approx. 25Kg) shrinkwrapped and palletised.

1.2. Relevant identified uses of the substance or mixture and uses advised against
Identified uses
Thermoplastic Road Marking Material

1.3. Details of the supplier of the safety data sheet
Supplier:
R S Clare & Co Ltd
Stanhope Street
Liverpool
L8 5RQ
Tel: +44 151 709 2902
Fax: +44 151 709 0518
Andrew Spencer
aspencc@rsclare.co.uk

1.4. Emergency telephone number

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture
Classification (EC 1272/2008)
Physical and Chemical Hazards
Not classified.
Human health
Carc. 1B - H350;Repr. 1A - H360D
Environment
Aquatic Chronic 3 - H412
Classification (1999/45/EEC)
Carc. Cat. 2;R45, Repr. Cat. 1;R61. R52/53.

2.2. Label elements
Contains:
LEAD CHROMATE
Label In Accordance With (EC) No. 1272/2008

Signal Word
Danger

Hazard Statements
H350
May cause cancer.
H360D
May damage the unborn child.
H412
Harmful to aquatic life with long lasting effects.

Precautionary Statements
P201
Obtain special instructions before use.
P308+313
IF exposed or concerned: Get medical advice/attention.
P501
Dispose of contents/container to …

Supplementary Precautionary Statements
P202
Do not handle until all safety precautions have been read and understood.
P273
Avoid release to the environment.
P281
Use personal protective equipment as required.
Road Marking Thermoplastic - Yellow Grades

2.3. Other hazards

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

<table>
<thead>
<tr>
<th>LEAD CHROMATE</th>
<th>&lt;1.0%</th>
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<tr>
<td>CAS-No.: 7758-97-6</td>
<td>EC No.: 231-846-0</td>
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<td>Repr. 1A - H360/Df</td>
<td>Repr. Cat. 1; R61</td>
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<tr>
<td>STOT Rep. 2 - H373</td>
<td>Repr. Cat. 3; R62</td>
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<tr>
<td>Aquatic Acute 1 - H400</td>
<td>R33</td>
</tr>
<tr>
<td>Aquatic Chronic 1 - H410</td>
<td>N; R50/53</td>
</tr>
</tbody>
</table>

The Full Text for all R-Phrases and Hazard Statements is Displayed in Section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation.
Provide rest, warmth and fresh air. Get medical attention.

Ingestion
DO NOT INDUCE VOMITING! Rinse mouth thoroughly. Get medical attention immediately!

Skin Contact
Burns from hot material: Immerse in water immediately. DO NOT ATTEMPT TO REMOVE COOLED MATERIAL FROM SKIN. Seek medical advice. After contact with powder, wash skin thoroughly with soap and water.

Eye Contact
Promptly wash eyes with plenty of water while lifting the eye lids. Get medical attention if any discomfort continues.

4.2. Most important symptoms and effects, both acute and delayed

4.3. Indication of any immediate medical attention and special treatment needed

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing Media
Product is not flammable, but does support combustion. Extinguish with foam, carbon dioxide or dry powder. Do not use water as an extinguisher.

5.2. Special hazards arising from the substance or mixture

Specific Hazards
Vapours/gases/fumes of: Carbon monoxide (CO). Carbon dioxide (CO2).

5.3. Advice for firefighters

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Prevent entry of hot material into drains, sewers and watercourses

6.3. Methods and material for containment and cleaning up

Scrape or shovel up and transfer to suitable containers. Clean affected area Allow hot spillages to cool completely then break up into handleable amounts and dispose of in accordance with local regulations

6.4. Reference to other sections
SECTION 7: HANDLING AND STORAGE

**7.1. Precautions for safe handling**
Avoid inhalation of dust. Avoid inhalation of vapours from hot product. Avoid contact with hot material.

**7.2. Conditions for safe storage, including any incompatibilities**
Store between 0° - 40°C. Keep away from moisture.

**Storage Class**
Store under Cover if possible.

**7.3. Specific end use(s)**

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**8.1. Control parameters**

**Ingredient Comments**
No exposure limits noted for ingredient(s).

**8.2. Exposure controls**

**Protective Equipment**

**Engineering Measures**
Provide adequate general and local exhaust ventilation.

**Hand Protection**
Use suitable protective gloves if risk of skin contact.

**Eye Protection**
Wear approved safety goggles. Wear full face shield when transferring hot material between receptacles.

**Other Protection**
Wear appropriate clothing to prevent skin contact with hot material. Wear safety boots.

**Hygiene Measures**
Wash at the end of each work shift and before eating, smoking and using the toilet.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**9.1. Information on basic physical and chemical properties**

**Appearance**
Powder or Viscous liquid

**Colour**
Off white powder. Mixed hot material is yellow.

**Odour**
Characteristic

**Melting Point (°C)**
70 - 120°C

**Relative Density**
1.9 - 2.1 g/cm³ @ 20°C

**Bulk Density**
1.1 kg/l

**Flash Point (°C)**
>230 CC (Closed cup).

**9.2. Other information**

SECTION 10: STABILITY AND REACTIVITY

**10.1. Reactivity**

**10.2. Chemical stability**
Stable under normal temperature conditions.

**10.3. Possibility of hazardous reactions**

**Hazardous Polymerisation**
Will not polymerise.

**10.4. Conditions to avoid**
Sources of Ignition. Water and moisture, as wet material presents a significant hazard by spitting and foaming up during heating.
10.5. Incompatible materials

Materials To Avoid
Strong oxidising substances.

10.6. Hazardous decomposition products

Vapours/gases/fumes of: Carbon monoxide (CO). Carbon dioxide (CO2).

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Toxic Dose 1 - LD 50 5000 mg/kg (oral rat)

Other Health Effects
Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.

Inhalation
Vapours from heated material may cause irritation to the respiratory system

Ingestion.
Ingestion of powder may cause nausea, vomiting and diarrhoea

Skin Contact
Contact with hot material will cause burns.

Eye Contact
Dust may cause transient irritation

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:
Not known.

12.1. Toxicity

12.2. Persistence and degradability

12.3. Bioaccumulative potential

12.4. Mobility in soil

Mobility:
Low mobility in the environment.

12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects

SECTION 13: DISPOSAL CONSIDERATIONS

General Information
Do NOT pour hot material down drains.

13.1. Waste treatment methods

Pigment component of this material should be disposed of to a licensed waste contractor. Any disposal route for material should comply with local byelaws and the requirements of the Environmental Protection Act, 1990

SECTION 14: TRANSPORT INFORMATION

General
Contains <5% soluble lead - not classified as dangerous for transport under Special Provision 199 in Chapter 3.3 of ADR / RID / IMDG / IATA regulations.

14.1. UN number

UN No. (ADR/RID/ADN) N/A

14.2 UN Proper shipping name

14.3 Transport hazard class(es)

ADR/RID/ADN Class Not classified for transportation.

14.4. Packing group

14.5. Environmental hazards

14.6. Special precautions for user
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

**Uk Regulatory References**

**Statutory Instruments**
Chemicals (Hazard Information and Packaging for Supply) Regulations 2002 (CHIP3)

**Approved Code Of Practice**
Classification and Labelling of Substances and Preparations Dangerous for Supply.

**Guidance Notes**
CHIP for everyone HSG(108). Workplace Exposure Limits EH40.

**EU Legislation**
System of specific information relating to Dangerous Preparations. 2001/58/EC.

15.2. Chemical Safety Assessment

**SECTION 16: OTHER INFORMATION**

**Revision Comments**
Revised MSDS to reflect new GHS classification system

**Revision Date**
16th June 2011

**SDS No.**
MSDS/TPY/ver3

**Risk Phrases In Full**
R33 Danger of cumulative effects. , R45 May cause cancer. , R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. , R61 May cause harm to the unborn child. , R62 Possible risk of impaired fertility.

**Hazard Statements In Full**
H350 May cause cancer. , H360Df May damage fertility or the unborn child. , H373 May cause damage to organs through prolonged or repeated exposure. , H400 Very toxic to aquatic life. , H410 Very toxic to aquatic life with long lasting effects.

**Disclaimer**
The information provided only relates to the product or material specified and does not apply if used in combination with other materials. The data sheet gives information to the best of RS Clare & Co Ltd knowledge and awareness as of the date of issue. If you have purchased the product for supply to a third party for a use at work, it is your duty to take all necessary steps to ensure that any person handling or using the product is provided with the information in this sheet. If you are an employer, it is your duty to inform your employees and others who may be affected by any of the hazards described in this sheet and any precautions which should be taken.