

MATERIAL SAFETY DATA SHEET

PRODUCT NAME : EMERALD PRIMER

1. Product and Company Identification

Product name: Emerald Primer
Synonyms: None
Item Numbers: E48010700

European Contact Details

Edwards, Manor Royal, Crawley
West Sussex, RH10 9LW, England

General enquiries

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US Contact Details

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Wilmington, MA 01887

General enquiries

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Toll Free: 1-800-848-9800

24 h Emergency telephone number:

Chemtrec: 1-800-424-9300

2. Composition/Information on Ingredients

| Ingredient | % Weight | CAS No | Hazard class* | Risk phrase* |
|----------------------|----------|----------|----------------|---------------------------------|
| 1-methoxy-2-propanol | 10 - 30 | 107-98-2 | Not applicable | R10 |
| Butanol-norm | 10 - 30 | 71-36-3 | Not applicable | R10, R22, R37/38, R41, R67 |
| Methanol | 10 - 30 | 67-56-1 | Not applicable | R11, R23/24/25, R39/23/24/25 |

*Hazard class & Risk phrase. These columns are only completed for ingredients which are classified as hazardous under EU Directive (67/548/EEC, as amended) and are present in sufficient concentration to make the overall substance hazardous. In all other situations, the column will be completed as "Not applicable".

3. Hazards Identification

EMERGENCY OVERVIEW

Highly flammable. May seriously damage the eyes. Toxic: danger of very serious irreversible effects by inhalation, in contact with skin and if swallowed.

For short and long term exposure effects see Section 11 Toxicological data.

Eye Effects: May cause severe irritation, and may severely damage the eyes.

Skin Effects: May cause severe irritation, skin cracking and eczema. Acts as a defatting agent. Danger of very severe, irreversible effects.

Ingestion/Oral Effects: May cause irritation of mucous membranes and abdominal discomfort. Danger of very severe, irreversible effects if swallowed.

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Inhalation Effects: May damage the respiratory system. Danger of very severe, irreversible effects if inhaled.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Persons with liver, kidney, CNS, eye or skin disorders may be at increased risk from overexposure.

| NFPA Hazard codes | | HMIS Hazard codes | | Rating System 0 = No Hazard 1 = Slight Hazard 2 = Moderate Hazard 3 = Serious Hazard 4 = Severe Hazard |
|-------------------|---|-------------------|---|---|
| Health | 3 | Health | 3 | |
| Flammability | 3 | Flammability | 3 | |
| Instability | 0 | Reactivity | 0 | |

4. First Aid Measures

Eyes: Immediately remove the affected person from the source of exposure. Remove contact lenses, if worn. Immediately wash the eyes with plenty of water for at least 15 minutes, holding the eyelids open. Seek medical attention.

Skin: Immediately remove the affected person from the source of exposure. Remove contaminated clothing. Immediately wash the skin with soap and water. Seek medical attention if symptoms subsequently occur. Note that effects of exposure may be delayed: keep the affected person under observation.

Ingestion/Oral: Immediately remove the affected person from the source of exposure. Do not induce vomiting. Have the affected person drink plenty of water and immediately seek medical attention. Never give an unconscious person fluids by mouth !

Inhalation: Immediately remove the affected person to fresh air. Immediately seek medical attention. Keep the affected person warm and at rest. If breathing problems occur, a qualified individual should administer oxygen or artificial respiration as indicated.

Other Information: None.

5. Fire Fighting Measures

Extinguishing Media: Alcohol-resistant foam, carbon dioxide, dry powder or water mist/fog. Do not use water stream, as this will disperse the fire.

Fire and Explosion Hazard: Avoid spraying water directly into storage containers due to danger of boilover. Toxic carbon monoxide and carbon dioxide will be emitted during combustion.

Special Protective Equipment for Fire Fighters: Fire fighters should wear a self-contained breathing apparatus (SCBA) which meets appropriate standards operated in positive pressure mode, and full turnout gear.

For Flammability Properties - see Section 9

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6. Accidental Release Measures

Wear the appropriate protective clothing. Stop the leak if it is safe/possible to do so. Remove/extinguish sources of ignition. Use dykes to prevent spreading.

Use suitable inert absorbent materials to absorb spilled product. Dispose of collected product safely: see Section 13 "Disposal Considerations".

Avoid contaminating sewers, streams, rivers and other water courses with spilled product. Notify the appropriate authorities if significant contamination occurs.

7. Handling and Storage

Handling: Keep away from sources of ignition. Avoid inhalation and contact with skin and eyes. In case of insufficient ventilation, wear suitable respiratory equipment. Practice good personal hygiene. Wash hands after handling and before eating. Launder work clothes frequently. Dispose of contaminated clothes and shoes and other contaminated clothing items which cannot be properly cleaned.

Storage: Store in tightly closed original containers in cool, dry and well-ventilated areas. Store away from heat, sources of ignition, and oxidizing agents.

8. Exposure Controls/Personal Protection

Exposure Limits:

| Ingredient | ACGIH - TLV - | OSHA - PEL | Occupational Exposure Limits EH40 (UK) |
|----------------------|-------------------|-------------------|--|
| 1-methoxy-2-propanol | No data available | No data available | No data available |
| Butanol-norm | No data available | No data available | No data available |
| Methanol | No data available | No data available | No data available |

Personal Protection:

Engineering Measures: Where vapours or mists may be present, use mechanical ventilation to keep exposure to airborne fumes/vapours below the recommended exposure limits. Ensure that eye wash stations and emergency showers are close to working areas.

Respiratory Protection: Special ventilation is not necessary for normal applications. Where vapour/fumes concentrations in air may exceed the exposure limits (and where engineering or other means of exposure reduction are not adequate) use an approved respirator.

Hand/Skin Protection: Wear appropriate chemically protective gloves.

Eye/Face Protection: Wear chemical goggles/glasses or face shield.

Hygiene Measures: Practice good workplace hygiene. Wash after use and before eating, drinking, smoking or using the toilet. Do not eat, drink or smoke while using the product.

Other/General Protection: Wear appropriate clothing with long-sleeves and full-length trousers to prevent skin contact. Promptly change any clothing that becomes contaminated. Wear appropriate protective footwear.

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9. Physical and Chemical Properties

| | | | | |
|----------------------------|--|------------------------|-------------------|-------|
| Appearance and Odour | Light-coloured liquid with solvent odour | Boiling point | 100 / 212 | °C/°F |
| pH (as supplied) | No data available | Freezing Point | No data available | °C/°F |
| Solubility in Water | Slightly soluble | Auto Ignition | No data available | °C/°F |
| Volatile Content by Volume | 70% | Flash Point | 32 / 89.6 | °C/°F |
| Specific Gravity | 1.05 | | | |
| Vapour Pressure (mbar) | 6.66 x 10 ³ @ 25 °C | Vapour Pressure (Torr) | 50 @ 77 °F | |

10. Stability and Reactivity

| | |
|-------------------------------|---|
| Stability: | Stable under normal working conditions. |
| Material/Conditions to Avoid: | Heat, flames and other sources of ignition. Oxidising agents. |
| Hazardous Decomposition: | Will release toxic fumes/vapours of carbon monoxide and carbon dioxide when heated to decomposition temperatures. |
| Hazardous Polymerisation: | Will not occur. |

11. Toxicological Information

For a comprehensive description for the various toxicological (health) effects which may arise if the user comes into contact with the substance or preparation refer to Section 3 Hazards Identification.

Animal data:

| | |
|-------------|--------------------|
| LD50 value: | No data available. |
| LC50 value: | No data available. |

Carcinogenicity:

No known carcinogenic effects.

12. Ecological Information

No negative effects on the aquatic environment are known. The components of the product are not classified as environmentally hazardous. However, there may be a possibility that large or frequent spills may have harmful or damaging effects on the environment

13. Disposal Considerations




This material and its container must be disposed of as hazardous waste in accordance with all local and national requirements.

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14. Transport Information

This product is classified as dangerous under transport regulations.

| PARAMETER | EUROPEAN | CANADIAN TDG | UNITED STATES DOT |
|-----------------------|--|--|--|
| Proper Shipping Name | Resin Solution | Resin Solution | Resin Solution |
| Hazard Class | 3 | 3 | 3 |
| Identification Number | UN 1886 | UN 1886 | UN 1886 |
| Shipping Label |  FLAMMABLE LIQUID |  FLAMMABLE LIQUID |  FLAMMABLE LIQUID |

15. Regulatory Information

European Regulatory Information

This product has been classified in accordance with the Dangerous Substances Directive (67/548/EEC, as amended) and the Preparations Directive (88/379/EEC, as amended), implemented in the UK as the Chemical (Hazard Information and Packing) Regulations 1994 (CHIP, as amended).

Classified as dangerous to supply : Yes

Risk Phrases :

R10 - Flammable
R11 - Highly flammable
R41 - Risk of serious damage to eyes
R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed
R37/38 - Irritating to respiratory system and skin
R39/23/24/25 - Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed
R67 - Vapours may cause drowsiness and dizziness

Safety Phrases :

S25 - Avoid contact with eyes
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S27 - Take off immediately all contaminated clothing
S38 - In case of insufficient ventilation, wear suitable respiratory equipment
S45 - In case of accident or if you feel unwell, seek medical advice immediately (show label where possible)
S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection
S69 - This material and its container must be disposed of as hazardous waste.

Symbols :



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United States Regulatory Information

All ingredients contained in this product are included on the EPA TSCA Chemical Substance Inventory.

SARA TITLE III - SECTION 313 SUPPLIER NOTIFICATION:

This product contains the following toxic chemicals subject to reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act (EPCRA) of 1986 and of 40 CFR 372:

Methanol: CAS number 67-56-1 (10-30% weight)

California Proposition 65: This product does not contain chemicals known to the State of California to cause cancer or reproductive toxicity.

Canadian Regulatory Information

WHMIS Classification: B2, D2A, D2B

All ingredients contained in this product are included on the Canadian DSL.

16. Other Information

This MSDS is compiled in accordance with ANSI Z400.1 and the EU Safety Data Sheet Directive 91/155/EEC.

Sources of information for this data sheet:

- SDC Technologies Incorporated "CrystalCoat TC-339" Safety Data Sheet.

Glossary:

ACGIH - American Conference of Governmental Industrial Hygienists; ANSI - American National Standards Institute; Canadian TDG - Canadian Transportation of Dangerous Goods; CAS - Chemical Abstracts Service; Chemtrec - Chemical Transportation Emergency Center (US); CHIP - Chemical (Hazard Information and Packing); DSL - Domestic Substances List; EH40 (UK) - HSE Guidance Note EH40 Occupational exposure limits; EPA - Environmental Protection Agency; EPCRA - Emergency Planning and Community Right-To-Know Act; HMIS - Hazardous Material Information Service; LC - Lethal Concentration; LD - Lethal Dose; NFPA - National Fire Protection Association; OSHA - Occupational Safety and Health Administration, US department of Labour; PEL - Permissible exposure limit; SARA (Title III) - Superfund Amendments and Reauthorization Act; SARA 313 - Superfund Amendments and Reauthorization Act, Section 313; TLV - threshold limit value; TSCA - Toxic Substances Control Act Public Law 94-469; US DOT - US Department of Transportation; WHMIS - Workplace Hazardous Materials Information System.

Revisions:

Nov 2007 - Data Sheet updated to reflect the latest supplier safety information.

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