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PRODUCT NAME: EMARALD PRIMER

1. Product and Company Identification

Emarald Primer Product name:

Synonyms: None

Item Numbers: E48010700

European Contact Details

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24 h Emergency telephone number:

Chemtrec: 1-800-424-9300

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.

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	
Health	3	Health	3	0 = No Hazard	
Flammability	3	Flammability	3	1 = Slight Hazard	
Instability	0	Reactivity	0	2 = Moderate Hazard	
		•		3 = Serious Hazard	
				4 = Severe Hazard	

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3. 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 - 18	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 No 1272/2008 (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".

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.

Have the affected person drink plenty of water them self (ie never give an unconscious person

fluids by mouth!) and immediately seek medical attention. Do not induce vomiting!

Keep the affected person warm and at rest.

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 applicable.

Other Information: None.

5. Fire Fighting Measures

Extinguishing Media: Alcohol-resistant foam, carbon dioxide, dry powder or water fog. Do not use

water stream, as this will disperse the fire.

Fire and Explosion Hazard: Avoid spraying water directly into storage containers - there is a danger of

boilover if this is done. 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. Keep up-wind to avoid fumes. Containers close to fire should be

removed immediately or cooled with water.



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For Flammability Properties - see Section 9.

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. DO NOT touch spilled material.

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.

Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labelled container.

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.

Store in tightly closed original containers in cool, dry and well-ventilated areas. Store away Storage:

from heat, sources of ignition, and oxidizing agents.

Exposure Controls/Personal Protection

Exposure Limits:

Ingredient	ACGIH - TLV -	OSHA - PEL	Occupational Exposure Limits EH40 (UK)
1-methoxy-2-propanol	375 mg/m³ - 8 hr TWA	None Established	375 mg/m³ -8 hr TWA 560 mg/m³ - 15 min STEL
Butanol-norm	No data available	No data available	154 mg/m³ - 15 min STEL
Methanol	266 mg/m³ - 8 hr TWA	None Established	266 mg/m³ -8 hr TWA 333 mg/m³ - 15 min STEL

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.



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Hand/Skin Protection: Wear appropriate chemically protective gloves. The most suitable glove must be chosen

in consultation with the gloves supplier, who can inform about the breakthrough time of

the glove material.

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

DO NOT SMOKE IN WORK AREA! Do not eat, drink or smoke while using the product. Wash Hygiene Measures:

after use and before eating, drinking, smoking or using the toilet.

Use appropriate skin cream to prevent drying of skin.

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.

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)	66.66 @ 25 ℃	Vapour Pressure (Torr)	50 @ 77 °F	

10. Stability and Reactivity

Stability: Stable under normal temperature 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 2 Hazards Identification.



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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.

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 1866	UN 1866	UN 1866	
Shipping Label	FLAMMABLE LIQUID	FLAMMABLE LIQUID	FLAMMABLE LIQUID	



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15. Regulatory Information

European Regulatory Information

This product has been classified in accordance with EU Regulation No 1272/2008 (as amended) on the Classification, Labelling and Packaging of Substances and Mixtures.

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.

S60 - This material and its container must be disposed of as hazardous waste.

Symbols:





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.



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16. Other Information

This MSDS is compiled in accordance with ANSI Z400.1 and Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

Sources of information for this data sheet:

• SDC Technologies Incorporated "CrystalCoat TC-339" Safety Data Sheet, revision date 21.10.09.

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); 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:

Aug 2010 - Data Sheet updated to reflect the latest regulatory and supplier safety information.

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