



335 Horner Avenue, Toronto, Ontario M8W 1Z6
 Canada Ph (416) 251-0051 fx (416) 251-3412
 www.protekpaint.com

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

Product Code: MC428H
Product Trade Name: 1360 Studio Flat Flame Red
Product Class / Intended End Use: Decorative Coating
Emergency Telephone Numbers: For emergency health, safety and environmental information call 416-252-5676 (Monday to Friday 9am-4pm est/edt)

For Emergency Transportation Information call CANUTEC at 613-996-6666

SECTION 2: HAZARDS IDENTIFICATION

Classification:

	Category
Acute toxicity, oral	4
Reproductive toxicity	2
Specific target organ toxicity, single exposure (kidneys)	2
Specific target organ toxicity, single exposure (CNS)	3
Signal word:	WARNING

Hazard Statements:

- Harmful if swallowed
- Suspected of damaging the unborn child
- May cause damage to the kidneys if swallowed
- May cause drowsiness or dizziness

Precautionary Statements:

- Wash hands thoroughly after handling
- Do not eat, drink or smoke when using this product
- Use only outdoors or in a well-ventilated area.
- Do not breathe mist or vapour
- Wear protective gloves/clothing and eye/face protection
- If exposed or concerned: Call a POISON CENTER or doctor/physician

Other Hazards:

- May cause eye, skin and respiratory tract irritation
- Can decompose at high temperatures forming toxic gases
- May be harmful to aquatic life

Hazard Pictograms:



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SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

NAME	CAS #	WT %
1,2-Dihydroxyethane	107-21-1	3.6
<i>N/A = Not Available N/E = Not Established</i>		

SECTION 4: FIRST-AID MEASURES

- Ingestion:** Do NOT induce vomiting. Have victim rinse mouth with water. Get immediate medical attention
- Inhalation:** Immediately remove person to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, administer oxygen. Get medical attention.
- Skin Contact:** Take off contaminated clothing. Rinse skin with soap and water. Wash contaminated clothing before reuse. If skin irritation occurs, get medical attention.
- Eye Contact:** Immediately flush eyes with gentle flowing water for 10-15 minutes. Remove contact lenses if present and easy to do. Get medical attention.

Call a poison centre or doctor/physician if you feel unwell.

Most Important Symptoms and Effects (both acute and delayed):

- Harmful if swallowed.
- May cause damage to the kidneys if swallowed.
- May cause drowsiness or dizziness. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects.
- May cause slight eye and skin irritation. Symptoms include: Redness, swelling, itching and dryness.
- Suspected of damaging the unborn child.

Indication of any Immediate Medical Attention and Special Treatment Needed:

- Immediate medical attention is required. May be harmful or fatal if swallowed.
- Onset of symptoms may be delayed for 18 to 24 hours after ingestion. Symptoms may be delayed.

SECTION 5: FIRE-FIGHTING MEASURES

- Suitable Extinguishing Media:** Water fog, CO₂, extinguishing powder, foam.
- Unsuitable Extinguishing Media:** Do not use a heavy water stream as it may scatter and spread fire.
- Specific Hazards Arising from the Substance or Mixture:** Burning may produce irritation, toxic and noxious fumes.
- Hazardous Combustion Products:** Thermal decomposition products are toxic and may include silicon, oxides of calcium, carbon and irritating gases.
- Special Protective Equipment and Precautions for Fire Fighters:** Move containers from fire area if possible to do without risk. Use water spray to cool fire-exposed containers. Wear self-contained breathing (SCBA) apparatus and full firefighting protective clothing.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:	Use personal protective equipment. Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. Wear suitable protective equipment. Refer to protective measures listed in sections 7 and 8.
Environmental Precautions:	Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply.
Methods and Materials for Containment and Clean Up:	Small spills should be absorbed with clay, diatomaceous earth or other suitable inert absorbent. Clean up with non-sparking tools. Store spilled material in suitable, closed containers suitable for disposal. Large spills may be pumped into appropriate closed containers for recovery or disposal.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling:	Avoid inhalation, skin and eye contact. Do not ingest. Wear personal protective equipment. Handle with good industrial hygiene. Wash hands before eating or drinking. Keep away from extreme heat and flame. Keep away from acids and other incompatibles. Use caution when opening cap. Keep containers tightly closed when not in use. Empty containers retain residue (liquid and/or vapour) and can be dangerous.
Conditions for Safe Storage:	Store in a cool, dry, well-ventilated area. Store away from areas of excessive heat, open flames, sparks, and other possible sources of ignition. Keep away from incompatibles. Storage area should be clearly identified, clear of obstruction and accessible.
Incompatibles:	Acids, strong oxidizers.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Name	ACGIH TLV (ppm)		OSHA PEL (ppm)	
	TWA	STEL	PEL	STEL
1,2-Dihydroxyethane	100 mg/m ³ aerosol	N/A	50	N/A
<i>N/A = Not Available N/E = Not Established</i>				

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Control Parameters:	No TLV data available on product.
Appropriate Engineering Controls:	Use sufficient mechanical ventilation to maintain exposures below the TLV. Use local exhaust if mist or spray is generated.
Personal Protective Equipment	
Respiratory Protection:	If exposure cannot be controlled below applicable limits, use the appropriate NIOSH approved respirator such as an air purifying respirator with organic vapour cartridge and dust/mist filter.
Eye Protection:	Use safety glasses, goggles or full face shield where required.
Skin Protection:	Use chemically impervious nitrile or neoprene gloves. Wear long sleeved protective clothing. When required, wear impervious rubber apron. The selection of personal protective equipment and clothing varies, depending upon conditions of use.
Other Considerations:	Do not breathe mist or vapour. Avoid contact with eyes, skin and clothing. When using do not eat or drink. When using do not smoke. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse.

SECTION 9: PHYSICAL PROPERTIES

% Volatiles by Weight:	51.12
Auto Ignition Temperature:	Data Not Available
Boiling Point:	>100 °C / 212 °F
Decomposition Temperature:	Data Not Available
Explosive Limit:	Data Not Available
Flammability (solid, gas):	Nil
Flash Point (Setaflash Closed Cup):	Not Applicable
Freezing Point:	<0 °C / 32 °F
Melting Point:	Data Not Available
Odour Threshold:	Data Not Available
Odour:	Slight Sweet
Partition Coefficient:	Data Not Available
pH:	8.5 – 9.5
Physical State/Appearance:	Coloured Viscous Liquid
Relative Evaporation Rate (Butylacetate=1)	Data Not Available
Solubility in Water:	Miscible
Specific Gravity:	1.31
Vapour Density:	Data Not Available
Vapour Pressure:	Data Not Available
Viscosity:	Thick

SECTION 10: STABILITY AND REACTIVITY

Reactivity:	Avoid contact with incompatibles
Chemical Stability:	Stable at normal condition of usage
Possibility of Hazardous Reactions:	Will not occur
Conditions to Avoid:	Avoid ignition sources, heat, sparks, open flame, direct sunlight and extremely high or low temperatures. Do not use in areas without adequate ventilation.
Incompatibles:	Acids, strong oxidizers
Hazardous Decomposition Products:	CO, CO ₂ , hydrocarbons, free chlorine (if burned), oxides of nitrogen, hydrogen chloride.

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SECTION 11: TOXICOLOGICAL INFORMATION

Name	LD 50			LC 50		
	mg/kg	Animal	Route	ppm	Animal	Route
1,2-Dihydroxyethane	4000 9530	Rat Rabbit	Oral Dermal	4300	Rat	Inhalation, 4h
<i>N/A = Not Available N/E = Not Established</i>						

Acute Toxicity:	No test data on mixture.
No Test Data for the Mixture On:	Skin corrosion/irritation, eye damage/irritation, skin sensitization, respiratory sensitization, germ cell mutagenicity, carcinogenicity, reproductive toxicity, STOT-single exposure, STOT- repeated exposure, aspiration.
Likely Routes of Exposure:	Inhalation, eye contact, skin contact, ingestion.
Symptoms/Injuries after Inhalation:	If mists are inhaled, may cause tearing, general anesthesia, headache, coughing, respiratory stimulation, nausea, vomiting, pulmonary, kidney and liver damage.
Symptoms/Injuries after Skin Contact:	May cause mild skin irritation. Product may be absorbed and cause symptoms similar to those listed for ingestion.
Symptoms/Injuries after Eye Contact:	May cause mild eye irritation. Symptoms may include inflammation and tearing.
Symptoms/Injuries after Ingestion:	Harmful or fatal if swallowed. Human poison by ingestion (lethal dose of Ethylene glycol for humans reported to be 100 mL). Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects. Initially, the central nervous system is stimulated, followed by depression. Could cause cyanosis (bluish discoloration of the skin due to deficient oxygenation of the blood). May potentially result in lethal kidney damage. Could also cause convulsions, coma, respiratory arrest and death.
Potential Chronic Effects:	Prolonged or repeated exposure may cause bladder or kidney stones. Suspected of damaging the unborn child.

SECTION 12: ECOLOGICAL INFORMATION

Eotoxicity:	May be harmful to aquatic life
VOC (g/L):	163
Persistence and Degradability:	No test data on mixture
Bio-accumulative Potential:	No test data on mixture
Mobility in Soil:	No test data on mixture
Other Adverse Effects:	None known

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SECTION 13: DISPOSAL CONSIDERATIONS

- Handling for Disposal:** Handle waste according to recommendations in Section 7.
- Methods of Disposal:** Dispose of in accordance with federal, provincial/state and local hazardous waste laws. Do not discharge into sewage or municipal water. Do not incinerate closed containers.
- RCRA:** If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

DO NOT INCINERATE CLOSED CONTAINERS

SECTION 14: TRANSPORTATION INFORMATION

UN Number:	Not Regulated
UN Proper Shipping Name:	Not Regulated
Transport Hazard Class:	Not Regulated
Packing Group:	None
Environmental Hazards:	May be harmful to aquatic life.
Special Precautions for User:	Appropriate advice on safety should accompany the package. Keep away from heat, sparks and open flame. Avoid static electricity.
Transport in Bulk:	Information not available.

SECTION 15: REGULATORY INFORMATION

- Canada:** All components are in compliance with the Canadian environmental protection act and are present on the domestic substances list. This product has been classified in accordance with the hazard criteria of the CPR and the SDS contains all the information required by the CPR.
- USA:**
- TSCA:** All components of this material are on the US TSCA inventory or are exempt.
 - OSHA:** This material is classified as hazardous under OSHA regulation (29CFR 1910.1200).
 - CERCLA:** Reportable quantities (RQ) (40 CFR 117.302). Data not available.
 - SARA TITLE 111:** Sec 302, extremely hazardous substances, 40 CFR 355 - Data not available
 - SARA TITLE 111:** Sec 313, toxic chemical notification, 40 CFR 372 - Data not available

SECTION 16: OTHER INFORMATION

HMIS:	Health 1	Flammability 0	Reactivity 0	
NFPA:	Health 1	Flammability 0	Reactive Instability 0	Special Hazard 0

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DISCLAIMER

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END OF SAFETY DATA SHEET