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SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

Product Code: MC431F
Product Trade Name: 6410A 2K Red Epoxy – Part A
Product Class / Intended End Use: Commercial 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 1-888-CAN-UTEC (226-8832) or 613-996-6666 or *666 from cell phone.

SECTION 2: HAZARDS IDENTIFICATION

Classification:

	Category
Flammable Liquids	3
Acute Toxicity - Inhalation	4
Aspiration Hazard	1
Skin Corrosion/Irritation	2
Eye Damage/Irritation	2A
Skin Sensitization	1
Specific Target Organ Toxicity (Single Exposure) – Narcotic Effects, Respiratory, CNS	3
Specific Target Organ Toxicity (Repeated Exposure)	2
Carcinogenicity	2
Reproductive Toxicity	2
Aquatic Toxicity – Acute	2
Aquatic Toxicity - Chronic	2
Signal word:	WARNING

Hazard Pictograms:



Hazard Statement(s):

- Flammable liquid and vapour
- Harmful if inhaled
- May be fatal if swallowed and enters airways
- Causes skin irritation
- Causes serious eye irritation
- May cause an allergic skin reaction
- May cause respiratory irritation
- May cause drowsiness and dizziness
- May cause damage to organs through prolonged or repeated exposure
- Suspected of causing cancer
- Suspected of damaging fertility or the unborn child
- Toxic to the aquatic environment with long lasting effects

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Precautionary Statement(s) Prevention:

- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Keep container tightly closed
- Ground and bond container and receiving equipment
- Use explosion-proof electrical/ventilating/lighting/equipment
- Use non-sparking tools
- Take action to prevent static discharges
- Wear protective gloves/protective clothing/eye protection/face protection
- Avoid breathing dust/fume/mist/vapours/spray
- Use only outdoors or in a well-ventilated area
- Wash hands, face and any contacted skin thoroughly after handling
- Avoid breathing dust/fume/gas/mist/vapours/spray
- Contaminated work clothing should not be allowed out of the workplace
- Get medical advice/attention if you feel unwell.
- Obtain special instructions before use
- Do not handle until all safety precautions have been read and understood
- Avoid release into the environment

Precautionary Statement(s) Response:

- **IF ON SKIN (or hair):** Take off immediately all contaminated clothing. Wash skin with plenty of water
- **In case of fire:** Use water fog or fine spray, alcohol foams, carbon dioxide and dry chemical
- **IF INHALED:** Remove person to fresh air and keep comfortable for breathing
- **Call a POISON CENTRE/doctor/physician** if you feel unwell
- **IF SWALLOWED: Immediately call a POISON CENTRE/doctor/physician**
- **Do NOT induce vomiting**
- **IF skin irritation or rash occurs:** Get medical advice/attention
- Take off contaminated clothing and wash it before reuse
- **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- **IF eye irritation persists:** Get medical advice/attention
- Take off contaminated clothing and wash it before reuse
- **IF exposed or concerned:** Get medical advice/attention

Precautionary Statement(s) Storage:

- Store in a well-ventilated place.
- Keep cool
- Store locked up

Precautionary Statement(s) Disposal:

- Dispose of contents/container in accordance with local, regional and international regulations.

Other Hazards Which do not Result in Classification:

- Burning produces obnoxious and toxic fumes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

NAME	CAS	EINECS	WT %
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane	25068-38-6	500-033-5	55.46
Oxirane, mono(C12-13-alkyloxy)methyl derivs.	120547-52-6	--	7.71
Dimethylbenzene	1330-20-7	215-535-7	7.08
Ethylbenzene	100-41-4	202-849-4	1.25
N/A = Not Available N/E = Not Established			

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SECTION 4: FIRST-AID MEASURES

General Advice:	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
Inhalation:	Immediately remove person to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. Call a POISON CENTER or doctor/physician if you feel unwell.
Ingestion:	Do not induce vomiting. Rinse mouth thoroughly. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration.
Eye Contact:	Flush with large amounts of water for 15 minutes. Remove contact lenses, if present and easy to do. If irritation or symptoms develop, seek medical attention.
Skin Contact:	Wash affected areas with soap and water. Take off contaminated clothing and wash before re-use. Get medical attention if irritation develops and persists.

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

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

- Irritation. Pre-existing skin problems may be aggravated by prolonged or repeated contact.
- Causes skin irritation. Redness, swelling, itching and dryness.
- May cause respiratory irritation. May cause coughing and breathing difficulties.
- Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
- Aspiration hazard. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal.
- May cause headache, nausea, dizziness and other symptoms of central nervous system depression.
- May cause eye irritation. Symptoms may include stinging and tearing.
- Prolonged exposure can cause central nervous system effects.
- Contains a chemical or chemicals which can cause birth defects or other reproductive harm.
- Suspected of causing cancer.

Indication of any Immediate Medical Attention and Special Treatment Needed:

- Treat symptomatically. Aspiration hazard.. This product is a CNS depressant.

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SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:	Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide and dry chemical.
Unsuitable Extinguishing Media:	Do not use heavy water stream as it may scatter and spread fire.
Specific Hazards Arising from the Substance or Mixture:	Flammable. Keep product and empty container away from heat and sources of ignition. Thermal decomposition can lead to release of irritating gases and vapours. Vapours are heavier than air and may spread along floors. Static discharge, impact, friction, and heat may ignite exposed chemical material. Closed container may rupture (due to build up in pressure) when exposed to extreme heat.
Hazardous Combustion Products:	Carbon monoxide (CO), Carbon dioxide (CO ₂). Irritating or toxic substances may be emitted upon burning, combustion or decomposition.
Special Protective Equipment and Precautions for Fire Fighters:	Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. A full-body chemical resistant suit should be worn. Personnel without suitable respiratory protection must leave the area to prevent significant exposure to hazardous gases from combustion, burning or decomposition. In an enclosed or poorly ventilated area, wear SCBA during cleanup immediately after a fire as well as during the attack phase of firefighting operations.
Special Fire-Fighting Procedures:	Do not breathe fumes or vapours. Evacuate personnel to safe areas. Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame. Dike for water control. Avoid release to the environment.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:	All persons dealing with clean-up should wear the appropriate protective equipment including self-contained breathing apparatus. Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Eliminate ignition sources.
Environmental Precautions:	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
Methods and Materials for Containment and Clean Up:	Remove all sources of ignition. Ventilate the area. Prevent further leakage or spillage if safe to do so. Dike for water control. Use only non-sparking tools and equipment in the clean-up process. Spilled material will create slippery surfaces. Clean up promptly. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal. Contact the proper local authorities.

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SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling: Use only outdoors or in a well-ventilated area. Wear protective gloves and eye/face protection. Avoid breathing mist or vapours. Avoid contact with skin, eyes and clothing. Keep away from heat and open flames. - No smoking. Use only non-sparking tools. Keep away from incompatibles. Wash thoroughly after handling. Keep containers closed when not in use. Discard shoes contaminated with this product. Provide eyewash fountains and safety showers in the work area.

Conditions for Safe Storage: Keep away from heat, sparks and open flame. - No smoking. Store in a cool, dry, well-ventilated area. Store away from incompatibles and out of direct sunlight. Keep cool. Keep container tightly closed. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks.

Incompatibles: Strong oxidizers (e.g. Chlorine, Peroxides, etc.).

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Name	ACGIH TLV (ppm)		OSHA PEL (ppm)	
	TWA	STEL	PEL	STEL
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane	N/A	N/A	N/A	N/A
Oxirane, mono(C12-13-alkyloxy)methyl derivs.	N/E	N/E	N/E	N/E
Dimethylbenzene	20	N/A	100	N/A
Ethylbenzene	20	N/A	20	125
<i>N/A = Not Available N/E = Not Established</i>				

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- Appropriate Engineering Controls:** Provide exhaust ventilation or other engineering controls to keep the airborne concentration of vapours below their respective threshold limit value. Use explosion-proof electrical and ventilating equipment. Eyewash fountains and safety showers are recommended in the work area.
- Personal Protective Equipment**
- Respiratory Protection:** Wear an approved respirator (e.g., an organic vapor respirator, a full face air purifying respirator for organic vapors, or a self-contained breathing apparatus) whenever exposure to aerosol, mist, spray, fume or vapor exceed the applicable exposure limit(s) of any chemical substance listed in this SDS. Use respirator in accordance with manufacturer's use limitations and OSHA standard 1910.134 (29CFR). Seek advice from respiratory protection specialists.
- Eye/Face Protection:** Use face shield and safety glasses for eye protection.
- Hand Protection:** Wear chemical resistant (impervious) protective gloves. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- Skin/Body Protection:** Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
- Other Protective Equipment:** Wear appropriate protective clothing to prevent skin contact, such as coveralls or long sleeved shirt, long pants, and shoes and socks. An eyewash station and safety shower should be made available in the immediate working area. Other equipment may be required depending on workplace standards.
- General Hygiene Considerations:** Avoid breathing mist or vapours. Avoid contact with skin, eyes and clothing. Do not eat, drink, smoke or use cosmetics while working with this product. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse.

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SECTION 9: PHYSICAL PROPERTIES

Autoignition Temperature	Not Applicable
Boiling Point:	138 °C / 280 °F
Colour:	Red
Decomposition Temperature:	Data not Available
Explosion Limit	Not Applicable
Flammability (solid, gas):	Flammable
Flash Point (Setaflash Closed Cup):	27 °C/ 81 °F
Freezing Point:	Not Applicable
Melting Point:	Data not Available
Odour Threshold:	Data not Available
Odour:	Slight Aromatic
Partition Coefficient:	Data not Available
pH:	Not Applicable
Physical State:	Liquid
Relative Evaporation Rate (Butylacetate=1)	Not Applicable
Solubility in Water:	Nil
Specific Gravity:	1.12
Vapour Density:	Data not Available
Vapour Pressure:	Data not Available
Viscosity:	Fluid
% Volatiles by Weight:	9.98

SECTION 10: STABILITY AND REACTIVITY

Reactivity:	Stable under recommended storage conditions.
Chemical Stability:	Stable under normal conditions of use.
Possibility of Hazardous Reactions:	Will not occur under normal use.
Conditions to Avoid:	Avoid ignition sources – heat, sparks, open flame, direct sunlight, extremely high or low temperatures. Do not use without adequate ventilation.
Incompatibles:	Strong oxidizers (e.g. Chlorine, Peroxides, etc.).
Hazardous Decomposition Products:	Hazardous decomposition products formed under fire conditions. - Nature of decomposition products not known.

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SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity:	LD 50			LC 50		
	Name	mg/kg	Animal	Route	ppm	Animal
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane	13600	Rat	Oral	N/A		
Oxirane, mono(C12-13-alkyloxy)methyl derivs.	10400 >4500	Rat Rabbit	Oral Dermal	>1.5 mg/L	Rat	Inhalation, 4h
Dimethylbenzene	3500 15380	Rat Rabbit	Oral Dermal	4000	Rat	Inhalation, 4h
Ethylbenzene	3500 15400	Rat Rabbit	Oral Dermal	17.2 mg/L	Rat	Inhalation, 4h
N/A = Not Available N/E = Not Established						

Likely Routes of Exposure:	Inhalation, skin & eye contact, ingestion.
General	Caution must be exercised through the prudent use of protective equipment and handling procedures to minimize exposure.
Symptoms/Injuries after Inhalation:	May be harmful if inhaled. Causes irritation of the respiratory tract and mucous membranes. May cause respiratory tract irritation. Coughing, difficulty breathing, and tightness in chest. May cause headache, nausea, dizziness and other symptoms of central nervous system depression.
Symptoms/Injuries after Eye Contact:	Causes eye irritation. Symptoms may include stinging, tearing, redness, swelling and blurred vision.
Symptoms/Injuries after Skin Contact:	May be harmful if absorbed through skin. Causes skin irritation. Symptoms may include redness, edema, drying defatting and cracking of the skin. May cause sensitization by skin contact.
Symptoms/Injuries after Ingestion:	May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration hazard. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal.
Symptoms/Effects Both Acute and Delayed	Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting: May cause central nervous system depression.
STOT – Single Exposure	Central Nervous System (CNS). Narcotic Effects. May cause drowsiness and dizziness. May cause respiratory irritation.
STOT – Repeated Exposure	Prolonged exposure can cause central nervous system effects.
Carcinogenicity:	suspected of causing cancer. Contains Ethylbenzene. Ethylbenzene is classified as carcinogenic by IARC.
Reproductive Effects & Teratogenicity:	Suspected of damaging the unborn child. Contains Toluene. Toluene may cause fetotoxic effects at doses which are not maternally toxic, based on animal data.

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SECTION 12: ECOLOGICAL INFORMATION

Eco toxicity:	Toxic to aquatic organisms with long lasting effects. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.
Persistence and Degradability:	No test data on mixture.
VOC (g/L):	112
Bio-accumulative Potential:	No test data on mixture.
Mobility in Soil:	No test data on mixture.
Other Adverse Effects:	None known.

SECTION 13: DISPOSAL CONSIDERATIONS

Handling for Disposal:	Handle waste according to recommendations in Section 7. Empty containers retain residue (liquid and/or vapour) and can be dangerous.
Methods of Disposal:	Dispose of in accordance with federal, provincial/state and local hazardous waste laws. Do not discharge into sewage or municipal water.
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:	1263
UN Proper Shipping Name:	Paint
Transport Hazard Class:	3
Packing Group:	II
Environmental Hazards:	Toxic to aquatic life with long lasting effects.
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:	<p>TSCA: All components of this material are on the US TSCA inventory or are exempt.</p> <p>OSHA: This material does not contain any hazardous components under OSHA regulation (29CFR 1910.1200).</p> <p>CERCLA: This material does not contain any components with a section 304 EHS RQ.</p> <p>SARA TITLE 111: Sec 302, No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.</p> <p>SARA TITLE 111: Sec 313, This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.</p>

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SECTION 16: OTHER INFORMATION

HMIS:	Health 3	Flammability 1	Instability 0
NFPA:	Health 3	Flammability 1	Reactive Instability 0

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DISCLAIMER

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END OF SAFETY DATA SHEET