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SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

Product Code: MC414G
Product Trade Name: 8400 Low VOC Gloss Urethane
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

GHS Classification:

	Category
Flammable Liquids	2
Acute Toxicity - Oral	4
Acute Toxicity - Inhalation	4
Acute Toxicity - Dermal	4
Aspiration Toxicity	1
Reproductive Toxicity	1
Specific Target Organ Toxicity (Single Exposure) – CNS	1
Specific Target Organ Toxicity (Repeated Exposure) – Kidney, Liver	1
Signal word:	Danger!

Hazard Pictograms:



Hazard Statement(s):

- Highly flammable liquid and vapour
- Harmful if swallowed
- Harmful if inhaled
- Harmful in contact with skin
- May be fatal if swallowed and enters airways
- May damage fertility or the unborn child
- Causes damage to organs
- Causes damage to organs through prolonged or repeated exposure

PROTEK PAINT – SAFETY DATA SHEET

Precautionary Statement(s) Prevention:

- Wash face, hands and any exposed skin thoroughly after handling
- Do not breathe dust/fume/gas/mist/vapours/spray
- Use only outdoors or in a well-ventilated area
- 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/ventilation/lighting/equipment
- Use non-sparking tools
- Take action to prevent static discharge
- Wear protective gloves/protective clothing/eye protection/face protection
- Obtain special instructions before use
- Do not handle until all safety precautions have been read and understood
- Do not eat, drink or smoke when using this product

Precautionary Statement(s) Response:

- **In case of fire:** Use water fog, dry chemical, CO2 or 'alcohol' foam for extinction
- **IF SWALLOWED:** Call a POISON CENTRE/doctor/physician if you feel unwell
- **Do not induce vomiting**
- **IF INHALED:** Remove victim to fresh air and keep at rest in a position comfortable for breathing
- Call a **POISON CENTER** or doctor/physician if you feel unwell
- **IF ON SKIN:** Wash with plenty of water/shower
- Take off contaminated clothing and wash it before reuse
- **IF exposed or concerned:** Get medical advice/attention
- Get medical advice/attention if you feel unwell

Precautionary Statement(s) Storage:

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

Precautionary Statement(s) Disposal:

- Dispose of contents/container to an approved waste disposal plant

Hazards not Otherwise Classified:

- Repeated exposure may cause skin dryness or cracking
- May cause long lasting harmful effects to aquatic life

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

NAME	CAS	EINECS	WT %
Stoddard Solvent	8052-41-3	232-489-3	26.08
1,1-Dimethylethyl ester	540-88-5	208-760-7	23.02
Octamethylcyclotetrasiloxane	556-67-2	209-136-7	8.44
<i>N/A = Not Available N/E = Not Established</i>			

PROTEK PAINT – SAFETY DATA SHEET

SECTION 4: FIRST-AID MEASURES

- Ingestion:** Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting. 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.
- Inhalation:** If inhaled, move to fresh air, lie down. If breathing is difficult, give oxygen by qualified medical personnel only. If breathing has stopped, give artificial respiration. Call a POISON CENTRE or doctor/physician if you feel unwell.
- Skin Contact:** Immediately flush with plenty of water, while removing contaminated clothing. Immediately call a POISON CENTER or doctor/physician. Wash contaminated clothing before reuse.
- 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):

- Breathing difficulties. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting
- Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting

Indication of any Immediate Medical Attention and Special Treatment Needed:

- Treat symptomatically. This product is a CNS depressant.

SECTION 5: FIRE-FIGHTING MEASURES

- Suitable Extinguishing Media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Cool closed containers exposed to fire with water spray.
- 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:** Flammable. Risk of ignition. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Containers may explode when heated. Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition. Vapors may form explosive mixtures with air.
- Hazardous Combustion Products:** Carbon monoxide, carbon dioxide, toxic vapours, gases or particulates.
- Special Protective Equipment and Precautions for Fire Fighters:** Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
- Fight fires from a safe distance. Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame.

PROTEK PAINT – SAFETY DATA SHEET

SECTION 6: ACCIDENTAL RELEASE MEASURES

- Personal Precautions:** Use personal protective equipment. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition. Take precautionary measures against static discharges.
- Environmental Precautions:** Do not allow material to contaminate ground water system. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply.
- Methods for Containment and Clean Up:** Ventilate the area. Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. Use only non-sparking tools and equipment in the clean-up process. Avoid breathing mist or vapours. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13). Contact the proper local authorities. Refer to Section 13 for disposal of contaminated material.

SECTION 7: HANDLING AND STORAGE

- Precautions for Safe Handling:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/clothing and eye/face protection. Use only in well-ventilated areas. Avoid breathing vapour or mist. Avoid contact with skin, eyes and clothing. Keep container tightly closed. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Keep away from flames and hot surfaces. - No smoking. Use only non-sparking tools. Take precautionary measures against static discharges. Ground all equipment during handling.
- Conditions for Safe Storage:** Keep container tightly closed. Store in cool/well-ventilated place. Store locked up. Keep cool. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking.
- Incompatibles:** Acids, oxidizing agents, halogens and halogenated compounds. Metal salts.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Name	ACGIH TLV (ppm)		OSHA PEL (ppm)	
	TWA	STEL	PEL	STEL
Stoddard Solvent	100	N/A	500	N/A
1,1-Dimethylethyl ester	200	N/A	200	N/A
Octamethylcyclotetrasiloxane	N/A	N/A	N/A	N/A
<i>N/A = Not Available N/E = Not Established</i>				

PROTEK PAINT – SAFETY DATA SHEET

Appropriate Engineering Controls:

Use only in well-ventilated areas particularly in confined areas. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. Use explosion-proof equipment. In case of insufficient ventilation wear suitable respiratory equipment.

Personal Protective Equipment

Respiratory Protection:

Respiratory protection is required if the concentrations exceed the TLV. NIOSH-approved respirators are recommended. Advice should be sought from respiratory protection specialists. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134) or CSA Z94.4-02.

Eye/Face Protection:

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin Protection:

Wear protective gloves/clothing. The suitability for a specific workplace should be discussed with the producers of the protective gloves. Long sleeved clothing.

Other Protective Equipment:

An eyewash station and safety shower should be made available in the immediate working area. Depending on conditions of use, an impervious apron should be worn. Other equipment may be required depending on workplace standards.

Hygiene Measures:

Do not breathe mist or vapors. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Do not take contaminated clothing home. Handle in accordance with good industrial hygiene and safety practice.

SECTION 9: PHYSICAL PROPERTIES

% Volatiles by Weight:	58.02
Auto Ignition Temperature:	Data not Available
Boiling Point:	98° C / 208° F
Colour:	Clear
Decomposition Temperature:	Data not Available
Density / Specific Gravity:	0.90
Explosive Limit:	Data not Available
Flammability (solid, gas):	Flammable
Flash Point (Setaflash Closed Cup):	15°C / 59° F
Freezing/Melting Point:	Not Applicable
Odour Threshold:	Data not Available
Odour:	Sharp Sweet
Partition Coefficient:	Data not Available
pH:	Not Applicable
Physical State:	Liquid
Relative Evaporation Rate (BuAc=1)	Data not Available
Solubility in Water:	Nil
Vapour Density:	Data not Available
Vapour Pressure:	Data not Available
Viscosity:	Fluid

PROTEK PAINT – SAFETY DATA SHEET

SECTION 10: STABILITY AND REACTIVITY

Reactivity:	Not normally reactive under normal conditions of use.
Chemical Stability:	Stable under recommended storage conditions.
Possibility of Hazardous Reactions:	Vapours may form explosive mixture with air.
Conditions to Avoid:	Keep away from excessive heat, open flames, sparks and other possible sources of ignition. Avoid contact with incompatible materials. Do not use in areas without adequate ventilation. Avoid heat, open flames, sparks, static electricity and electrical equipment.
Incompatibles:	Plastic. Acids. Oxidizing agents. Alkalies. Nitrates
Hazardous Decomposition Products:	CO, CO ₂ , hydrocarbons

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity: Name	LD 50			LC 50		
	mg/kg	Animal	Route	mg/m ³	Animal	Route
Stoddard Solvent	5000 >3000	Rat Rat	Oral Dermal	>5500	Rat	Inhalation, 4h
1,1-Dimethylethyl ester	4100 >2000	Rat Rabbit	Oral Dermal	>2230	Rat	Inhalation, 4h
Octamethylcyclotetrasiloxane	1540	Rat	Oral	36 g/m ³	Rat	Inhalation, 4h
<i>N/A = Not Available N/E = Not Established</i>						

Likely Routes of Exposure:	Inhalation, eye contact, skin contact, ingestion.
Symptoms/Injuries after Inhalation:	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 Ingestion:	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/Injuries after Eye Contact:	May cause eye irritation. Symptoms may include stinging and tearing.
Symptoms/Injuries after Skin Contact:	Causes skin irritation.
Potential Chronic Health Effects:	Prolonged or repeated skin contact may cause drying and irritation. Prolonged overexposure may cause liver and kidney effects, and central nervous system effects.
Specific Target Organ Toxicity:	Single Exposure: CNS: May cause drowsiness or dizziness. Respiratory System: May cause respiratory irritation. Repeated Exposure: Kidney.
Reproductive Effects & Teratogenicity:	Suspected of damaging the unborn child.
Medical Conditions Aggravated by Overexposure:	Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

PROTEK PAINT – SAFETY DATA SHEET

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:	Toxic to aquatic life with long lasting effects. Do not allow material to contaminate ground water system.
VOC (g/L):	351
Persistence and Degradability:	No data is available on mixture.
Bio-accumulative Potential:	No data is available on mixture.
Mobility in Soil:	No data is available on mixture.
Other Adverse Effects:	No data is available on mixture.

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. Do not cut, weld, drill or grind on or near this container.
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. No smoking.
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

PROTEK PAINT – SAFETY DATA SHEET

SECTION 16: OTHER INFORMATION

HMIS:	Health 2	Flammability 4	Physical hazard 0
NFPA:	Health 2	Flammability 4	Instability 0

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DISCLAIMER

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END OF SAFETY DATA SHEET