



Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: RENU Primer-Sealer
Product Code: RENU2010
Supplier: Grafocoat Inc.
Trade Name: Water base paint
Material Uses: Coatings. Interior Primer-Sealer
Validation Date: March 2015
Emergency Contact: CANUTEC (613) 996-6666

2. HAZARDS IDENTIFICATION

Physical State: Liquid
Odour: Slight odour, Glycol
OSHA/HCS Status: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Emergency overview: WARNING! VAPOURS MAY BE IRRITATING TO EYES, NOSE, THROAT AND LUNGS. MAY CAUSE SKIN IRRITATION
Precautions: Do not breathe vapor or mist. Do not ingest. Do not get in eyes or on skin or clothing. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.
Routes of Exposure: Dermal contact. Eye contact. Inhalation. Ingestion.

Potential Acute Health Effects:

Inhalation: May cause irritation of the respiratory tract
Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea
Skin: Slightly irritating to the skin
Eyes: Slightly irritation to the eyes

Potential Chronic Health Effects:

Chronic Effects: Contains material that may cause target organ damage based on animal data.
Carcinogenicity: Contains material which may cause cancer based on animal data
Mutagenicity: No known significant effects or critical hazards
Teratogenicity: No known significant effects or critical hazards
Developmental effects: No known significant effects or critical hazards
Fertility Effects: No known significant effects or critical hazards
Target Organs: Contains material which may cause damage to the following organs: upper respiratory tract, skin, eyes, central nervous system, stomach

Over Exposure Signs/Symptoms:

Skin: Adverse symptoms may include irritation and redness
Eyes: Adverse symptoms may include pain or irritation, watering, redness



Medical Conditions: Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by overexposure to this product.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Weight %
Kaolin	1332-58-7	10-30
Tremolite	14567-73-8	1-5
Ethylene Glycol	107-21-1	1-5

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. FIRST AID MEASURES

Eye Contact: Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if irritation occurs.

Skin Contact: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if irritation occurs.

Inhalation: Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as collar, tie, belt or waistband. Get medical attention immediately.

Ingestion: Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If potentially dangerous quantities of this material have been swallowed, call a physician immediately.

Protection of First-Aiders: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it or wear gloves.



Notes to Physician: No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

5. FIRE-FIGHTING MEASURES

Flammability of the Product: In a fire or if heated, a pressure increase will occur and the container may burst.

Extinguishing media:

Suitable : Use an extinguishing agent suitable for the surrounding fire

Not suitable : None known

Special exposure hazards : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Hazardous thermal decomposition products:

Decomposition products may include the following materials:

carbon dioxide
carbon monoxide
metal oxide/oxides

Flash point: Not available.

Flammable limits : Not available.

Auto-ignition temperature: Not available.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

Environmental precautions: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).



Methods for Cleaning Up

- Small Spill:** Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large Spill:** Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

7. HANDLING AND STORAGE

- Handling:** Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Storage:** Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Keep out of reach of children. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.



8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits:

Ingredient	ACGIH	Alberta	British Columbia	Ontario	Quebec
Kaolin	TWA 2 mg/m ³ (respirable dust)	TWA 2 mg/m ³ (respirable dust)	TWA 2 mg/m ³ (respirable dust)	TWA 2 mg/m ³ (respirable dust)	TWA 2 mg/m ³ (respirable dust)
Ethylene Glycol	Ceiling 100 mg/m ³ (aerosol)	Ceiling 100 mg/m ³ (aerosol)	TWA 10 mg/m ³ (particulate) STEL 20 mg/m ³ (particulate) STEL 50 ppm (vapour)	Ceiling 100 mg/m ³	STEL 50 ppm (vapour & mist) STEL 127 mg/m ³ (vapour & mist)
Tremolite	TWA 0.1 f/cc	TWA 0.1 f/cc	TWA 0.1 f/cc		TWA 1 f/cc STEL 5 f/cc

ACGIH – American Conference of Governmental Industrial Hygienists

Alberta – Alberta Occupational Exposure Limits

British Columbia – British Columbia Occupational Exposure Limits

Ontario – Ontario Occupational Exposure Limits

Quebec – Quebec Occupational Exposure Limits

The notation “respirable” following the name of an agent in this Schedule means that size fraction of the airborne particulate deposited in the gas-exchange region of the respiratory tract and collected during air sampling with a particle size-selective device that, (a) meets the American Conference of Governmental Industrial Hygienists (ACGIH) particle size-selective criteria; and (b) has the cut point of 4 microns at 50 per cent collective efficiency.

Consult local authorities for acceptable exposure limits.

Recommended Monitoring Procedures: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

Engineering Measures : If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Hygiene Measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.



Personal Protection:

- Respiratory:** Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
- Hands:** Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Eyes:** Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.
- Skin:** Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Environmental Exposure Controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (Physical state):	Liquid
Flammable Limits:	Not Available
Colour:	White
Odor:	Slight Odor- Glycol
pH:	8.5 to 9.5
Boiling/condensation point:	Not available
Melting/freezing point:	Not available
Relative density:	1.2
Vapor density:	Not Available
Odor threshold:	Not Available
Evaporation rate:	Not Available
VOC content:	50g/litre (Method 24)

10. STABILITY AND REACTIVITY

Chemical stability:	The product is stable.
Conditions to avoid:	Avoid exposure - obtain special instructions before use.
Materials to avoid:	No specific data
Hazardous Decomposition Products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.



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Possibility of Hazardous Reactions: Under normal conditions of storage and use, hazardous reactions will not occur.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:

Ingredient	Result	Species	Dose	Exposure
Ethylene glycol	LD50 Oral	Rat	4700 mg/kg	

Chronic toxicity Conclusion/Summary : Not available.
 Irritation/Corrosion Conclusion/Summary : Not available.
 Sensitizer Conclusion/Summary : Not available.
 Carcinogenicity Conclusion/Summary : Not available.

Classification:

Ingredient	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
Kaolin	A4	-	-	-	-	-
Ethylene Glycol	A4	-	-	-	-	-
Tremolite	A1	-	-	-	Proven	+

Mutagenicity Conclusion/Summary : Not available.
 Teratogenicity Conclusion/Summary : Not available.
 Reproductive toxicity Conclusion/Summary : Not available.

12. ECOLOGICAL INFORMATION

Ecotoxicity : No known significant effects or critical hazards.

Aquatic Ecotoxicity:

Ingredient	Result	Species	Exposure
Ethylene Glycol	Acute LC50 >100000 ug/L Marine water	Crustaceans - Crangon crangon -Adult	48 hours
	Acute LC50 6900000 ug/L Fresh water	Daphnia - Ceriodaphnia dubia -Neonate	48 hours
	Acute LC50 8050000 ug/L Fresh water	Fish - Pimephales promelas - <=7 days	96 hours
	Chronic NOEC 11610000 ug/L Fresh water	Daphnia - Ceriodaphnia dubia -<=24 hours	48 hours
	Chronic NOEC 6090000 ug/L Fresh water	Fish - Pimephales promelas - <=7 days	96 hours

Persistence/degradability Conclusion/Summary : Not available.
 Other adverse effects: No known significant effects or critical hazards.



13. DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose of in Accordance with federal, state, provincial and local regulations. Dry empty containers may be recycled in a can recycling program. Local requirements may vary. Consult your sanitation department for more disposal options. Please recycle this product.

14. TRANSPORT INFORMATION

TDG Classification: Not regulated.
IMDG Class: Not regulated
IATA-DGR Class: Not regulated

15. REGULATORY INFORMATION

Canada

WHMIS (Canada) : Class D-2A: Material causing other toxic effects (Very toxic).



Canadian lists

Canadian NPRI :	The following components are listed: Ethylene glycol
CEPA Toxic substances:	None of the components are listed.
Canada inventory:	All components are listed or exempted.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

16. OTHER INFORMATION

The customer is responsible for determining the PPE code for this material.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.



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Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Date of issue: March 2015