Section 1: Identification

Product Identification

Product Name:	Rose Re-Nu
Product Number:	101256
Product Description:	Cleaning Compound
Synonyms and Trade Names:	
Additional Information:	

Distributor Identification

Distributer Name:	Hillyard/Ohio-Rose Products
Distributer Address:	545 Stimmel Road, Columbus, Ohio 43223-2901
Distributer Daytime Telephone:	614-433-7647
24 Hour Emergency Contact:	800-255-3924

Section 2: Hazards Identification

Hazard Pictograms

Signal Word

Danger

Hazard Statements

Harmful if swallowed
Causes severe skin burns and eye damage
Causes serious eye damage
May be harmful if inhaled

Precautionary Statements

Do not breath mists or spray
Wash hands after handling
Wear eye protection, face protection, and protective gloves
Use only outdoors or in well ventilated area

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
*If swallowed: Rinse mouth. Do **NOT** induce vomiting*
If on skin: Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse.
If inhaled: Remove person to fresh air and keep comfortable for breathing
Immediately call doctor

Store locked up.

Dispose of contents by neutralization then discharge to approved treatment facilities. Rinse containers prior to disposal.

Section 3: Composition and Ingredient Information

CAS No.	Name	Percent
7732-18-5	Water	to 100
7664-38-2	Phosphoric acid	20 to 25
79-14-1	Acetic acid, hydroxyl-	5 to 10
68603-25-8	Modified polyethoxylated alcohol nonionic surfactant	1 to 3

Section 4: First Aid Measures

Description of Symptoms and First Aid Measures

Inhalation: *Acute: Irritation of mouth, throat, nasal passages. Coughing, pain, or difficulty when breathing.*

If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention if symptoms persist.

Eye Contact: *Acute: Burning sensation, tearing, blurred vision*
Delayed: Burning sensation, discharge from eye, blurred vision

Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Call a physician immediately. In case of irritation from airborne exposure, move to fresh air. Get medical attention if symptoms develop or persist.

Skin Contact: *Acute: Burning sensation, redness or swelling*
Delayed: Redness or swelling

Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician immediately. Wash contaminated clothing before reuse. Destroy or thoroughly clean contaminated shoes.

Ingestion: *Acute: Burning sensation in mouth or throat. Abdominal pain*

Call a physician immediately. Do NOT induce vomiting. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person. If vomiting occurs, keep head lower than the hips to help prevent aspiration.

Section 5: Fire Fighting Measures

Fire: *Non-flammable*

Extinguishing Media: *Water, carbon dioxide, dry chemical, foam*

Special Fire Fighting Precautions: *If material is involved in a fire, avoid skin and eye contact, and breathing of acid vapors. Wear head and body protection and acid respirator if exposure to liquid, vapor, or mist is likely.*

Section 6: Accidental Release Measures

Personal Protection: *Wear appropriate personal protective equipment*

Small Spills: *Avoid release into the environment. Neutralize with soda ash. Absorb neutralized liquid with vermiculite, clay, or other inert material. Clean up solid and dispose of as chemical waste.*

Large Spills: *Use water spray to disperse vapors and flush spill area. Prevent run off into drains, sewers, or streams. Dike to contain for later disposal.*

Notification: *In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.*

Section 7: Handling and Storage

Safe Handling:
Do not ingest.
Do not breathe gas/fumes/ vapor/spray.
When adding to water, ensure sufficient water to absorb heat
In case of insufficient ventilation, wear suitable respiratory protection equipment.
If ingested, seek medical advice immediately and show the container or the label.
Avoid contact with skin and eyes.

Safe Storage:
Keep container dry.
Keep container in a cool, well-ventilated area.
Do not store above 24°C (75.2°F).
Keep away from heat and flame.
Keep from contact with oxidizing materials.
Keep container closed.
May corrode metallic surfaces.
Store in a metallic or coated fiberboard drum using a strong polyethylene inner package.

Incompatible Storage: *This product should not be stored with the following; aldehydes, amines, amides, alcohols and glycols, azo-compounds, carbamates, esters, caustics, phenols and cresols, ketones, organophosphates, epoxides, explosives, combustible materials, unsaturated halides, organic peroxides, sodium tetrahydroborate sulfides, mercaptans, cyanides, fluorides, halogenated organics*

Section 8: Exposure Controls and Personal Protection

Exposure Limits

CAS No.	Name	Percent	Exposure Limits	
7732-18-5	Water	to 100	--	
7664-38-2	Phosphoric acid	20 to 25	1 mg/m3 TWA	PEL
			1 mg/m3 TWA	ACGIH
			3 mg/m3 STEL	ACGIH
			1 mg/m3 TWA	NIOSH
			1000 mg/m3 IDLH	NIOSH
79-14-1	Acetic acid, hydroxyl-	5 to 10	--	
68603-25-8	Modified polyethoxylated alcohol nonionic surfactant	1 to 3	--	

Exposure Controls

Engineering Controls *Good general ventilation should be sufficient to control airborne levels unless splashing, spraying, or misting is occurring.*

Protective Facilities *Safety Shower, Eye Bath, Washing Facilities*

Eye and Face Protection *Splash goggles and face shield*

Skin and Hand Protection *Wear impervious clothing as necessary to prevent contact with material. Chemical resistant gloves should be used (butyl rubber, natural rubber, neoprene rubber, nitrile rubber, polyethylene, polyvinyl chloride)*

Respiratory Protection *If exposure limits are exceeded, or if mist is present, use of a supplied air respirator is recommended. An air-purifying respirator may be used under certain conditions. Consult your industrial hygiene specialist for recommendations and limitations*

Hygiene Measures *Observe good industrial hygiene practices. Wash exposed areas after use and before eating, drinking, use of tobacco.*

Section 9: Physical and Chemical Properties

Appearance	
Physical State:	*Liquid*
Form:	*Liquid*
Color:	*Colorless*
Odor:	*Low*
Odor Threshold:	*NDA*
Taste:	*NDA*
pH:	*1.0 – 2.0*
Boiling Point (°F):	*Approx 220*
Melting/Freezing Point (°F):	*Approx 32*
Flash Point (°F):	*Non-flammable*
Upper Flammability Limit (%):	*NA*
Lower Flammability Limit (%):	*NA*
Autoignition Temperature(°F):	*NA*
Decomposition Temperature (°F):	*NA*
Vapor Pressure (mmHg)(°C):	*.03 @ 20°C*
Vapor Density (air=1):	*NDA*
Specific Gravity (water=1) (25°C):	*1.05*
Evaporation Rate (BuAc = 1):	*NDA*
Molecular Weight:	*NA*
Viscosity (cp):	*NDA*
Partition coefficient n-octanol/water):	*NDA*
Solubility, Water (g/l)(°C):	*Miscible in all portions*
Solubility, (other) (g/l)(°C):	*NDA*

NDA = No Data Available
NA = Not Applicable

Section 10: Stability and Reactivity

Chemical Stability:	*Stable*
Possible Hazardous Reactions:	
Corrosivity	*May produce hydrogen gas in contact with metals or with reactions with chlorides*
Polymerization	*None*
Conditions to Avoid:	*None*
Incompatible Materials:	*Exothermic reactions with aldehydes, amines, amides, alcohols and glycols, azo-compounds, carbamates, esters, caustics, phenols and cresols, ketones, organophosphates, epoxides, explosives, combustible materials, unsaturated halides, and organic peroxides. Can react violently with sodium tetrahydroborate. Phosphoric acid forms flammable gases with sulfides, mercaptans, cyanides and aldehydes. It also forms toxic*

fumes with cyanides, sulfide, fluorides, organic peroxides, and halogenated organics

Hazardous Decomposition Products: *Possible oxides of carbon, phosphorus, or phosphorus compounds in a fire.*

Section 11: Toxicological Information

Likely Routes of Exposure

Inhalation: *Inhalation is not an expected hazard unless misted or heated to high temperatures. Mist or vapor inhalation can cause irritation to the nose, throat, and upper respiratory tract. Severe exposures can lead to a chemical pneumonitis.*

Ingestion: *Corrosive. May cause sore throat, abdominal pain, nausea, and severe burns of the mouth, throat, and stomach. Severe exposures can lead to shock, circulatory collapse, and death.*

Skin Contact/Absorption: *Corrosive. May cause redness, pain, and severe skin burns.*

Eye Contact/Absorption: *Corrosive. May cause redness, pain, blurred vision, eye burns, and permanent eye damage.*

Pre-existing Conditions *Persons with pre-existing skin disorders or eye problems, or impaired respiratory function may be more susceptible to the effects of the substance.*

Acute Toxicity

Test	Result	Basis
Oral Toxicity (Rat)	1,530 mg/kg	Based on phosphoric acid
Oral Toxicity (Mouse)	1.25 mg/kg	Based on phosphoric acid
Dermal Toxicity (Rabbit)	1,924 mg/kg	Based on phosphoric acid
Dermal Toxicity (Rabbit)	2,740 mg/kg	Based on phosphoric acid
Inhalation Toxicity, Vapor (Rat)	25.5 mg/m3	Based on phosphoric acid
Inhalation Toxicity, Vapor (Rat)	>850 mg/m3/1H	Based on phosphoric acid
Inhalation Toxicity, Vapor (Mouse)	25.5 mg/m3	Based on phosphoric acid
Eye Irritation (Rabbit)	119 mg	Draize Test, phosphoric acid
Dermal Irritation (Rabbit)	595 mg/24 Hr	Draize Test, phosphoric acid

Summary

Oral Toxicity*	Category 5
Dermal Toxicity*	Category 5
Inhalation Toxicity, Vapor*	Category 4
Dermal Irritation*	Category 1C
Eye Irritation*	Category 1

*Based on specific component adjusted to product concentration

Chronic Toxicity

NTP Listed

Product: *Not listed*

Specific Substance: *None listed*

IARC Listed

Product: *Not listed*

Specific Substance: *None listed*

Proposition 65

Product: *Not listed*

Specific Substance: *None listed*

Name	CAS	RTECS #
Phosphoric acid	7664-38-2	TB6300000
Glycolic acid	79-14-1	MC5250000
Modified polyethoxylated alcohol nonionic surfactant	68603-25-8	AZ0884166

Section 12: Ecological Information

Impact: *This product, when released into natural waters, may result in a temporary and localized reduction in the pH with harmful effects on fish and aquatic species.*

Acute Toxicity, Fish

Product: *NDA*

Specific Substance

Acute Toxicity, Aquatic Invertebrates

Product: *NDA*

Specific Substance:

Toxicity, Aquatic Plants

Product: *NDA*

Specific Substance:

Biodegradation

Product: *NDA*

Specific Substance:

Bioaccumulation Potential

Product: *NDA*

Specific Substance:

NDA = No Data Available

Section 13: Disposal Information

General Information *Dispose of in accordance with local regulatory requirements.*

Disposal Methods *Discharge, treatment, or disposal may be subject to national, state, or local laws. Since emptied containers retain product residue, follow label warnings even after container is emptied.*

Small amounts of product may be neutralized using caustic solutions and disposed of in accordance with local discharge regulations.

Section 14: Transportation Information

DOT NA1760, Compounds, cleaning solution (contains phosphoric and hydroxyacetic acids), 8, II

Label	*Corrosive*
Reportable Quantity	*5,000 lbs (phosphoric acid)*
Marine Pollutant	*No*
Transport in bulk	*NA*

Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Consult your company's Hazardous Materials/Dangerous Goods expert for information specific to your situation.

NDA = No Data Available

Section 15: Regulatory Information

Chemical Inventory Status

					Canada	
Ingredient (CAS)	**TSCA8(b)**	**EC**	**Japan**	**Australia**	**DSL**	**NDSL**
Phosphoric acid	X	X	X	X	X	
Acetic acid, hydroxyl-	X	X	X	X	X	
Modified polyethoxylated alcohol nonionic surfactant	X			X	X	

Federal Regulations

			EPCRA		CERLCA	CAA	
Ingredient (CAS)	**RCRA (261.33)**	**302 TPQ**	**304 RQ**	**313 Listed**	**302.4 RQ**	**112(r) TQ**	**TSCA 8(d)**
Phosphoric acid			5000		5000		

Other Regulations/Information

OSHA:	*Hazardous*
VOC:	*NA*
SARA 311-312 Hazard Classification(s):	*Immediate (acute) health hazard*
Chemical Weapons Convention:	*No*
WHMIS	*This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.*
Hazard Classification:	*Class E - Corrosive*
HMIS	*HMIS ratings involves data interpretations that may vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information contained in this MSDS must be considered.*
Health:	*3*
Fire:	*0*
Reactivity:	*0*
PPE:	*D*
NFPA	*NFPA 704*
Health:	*3*
Fire:	*0*
Reactivity:	*0*
Special Hazards:	

NDA = No Data Available
NA = Not Applicable

Section 16: Other Information

Disclaimer:	*The information presented in this Safety Data Sheet was prepared by technical personnel, based on data that they believe, in their good faith judgment, is accurate. This information should be used to make an independent determination of the appropriate and necessary methods to safeguard workers and the environment, considering the specific conditions and methods of use that will be employed. This information is provided without warranty.*
Prepared:	*20 October 2013*