Material Safety Data Sheet

BRASS CLEANER (RXSOL-15-1107-005)

1. Product and Company Identifaction

Product Name	**BRASS CLEANER**
Product Type	**RXSOL-15-1107-005**

Company Details:
RX MARINE INTERNATIONAL
105, A wing , BSEL , TECH PARK.
VASHI ,NEW BOMBAY 400703 INDIA

Phone	+91 22 65113333/ 5555 / 9999 / 27611360 / 27815540
Fax	+91 22 2781 1318 :::AOH :0091 9322594669
Email	mail@rxmarine.com

2. Composition / informationon ingredients

Ingredient	CAS #	Wt. %
Ammonia	7664-41-7	1-5
Isopropanol	67-63-0	1-5
Fatty acids, C16-18 and C18-unsaturated	67701-08-0	1-5
1,2-Propylene glycol	57-55-6	1-5
Oxalic acid dihydrate	6153-56-6	1-5
Silica, crystalline, quartz	14808-60-7	10 - 30
Poly(oxy-1,2-ethanediyl), .alpha.-undecyl-.omega.-hydroxy-	34398-01-1	0.5 - 1.5

3. Hazards Identification

EMERGENCY OVERVIEW
CAUTION
MAY CAUSE EYE IRRITATION. MAY CAUSE SKIN IRRITATION.

Potential Health Effects:	See Section 11 for more information.
Likely Routes of Exposure:	Skin contact, eye contact, inhalation, and ingestion.
Eye:	May cause eye irritation.
Skin:	May cause skin irritation.
Ingestion:	May be harmful if swallowed. May cause stomach distress, nausea or vomiting.
Inhalation:	May cause respiratory tract irritation.

Chronic Effects:	Prolonged or repeated contact may dry skin and cause irritation.
Signs and Symptoms:	Symptoms may include discomfort or pain, excess blinking and tear production. Symptoms may include redness, edema, drying, defatting and cracking of the skin.
Medical Conditions Aggravated By Exposure:	Asthma. Allergies.
Target Organs:	Skin, eyes, gastrointestinal tract, respiratory system.
Potential Environmental Effects:	May cause long-term adverse effects in the aquatic environment. See Section 12 for more information.

4. First Aid Measures

First aid procedures:

Eye Contact:	In case of contact, immediately flush eyes with plenty of water. Remove contact lenses, if worn. If irritation persists, get medical attention.
Skin Contact:	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation develops and persists.
Inhalation:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
Ingestion:	If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.
General Advice:	In case of accident or if you feel unwell, seek medical advice immediately(show the label or MSDS where possible).
Note to Physicians:	Symptoms may not appear immediately.

5. Fire-fighting Measures

Flammability:
Not flammable by WHMIS criteria.

Means of Extinction:
Suitable Extinguishing Media:
Powder, water spray, foam, carbon dioxide.

Unsuitable Extinguishing Media:
Not available.

Products of Combustion:
May include, and are not limited to: oxides of carbon, oxides of nitrogen, ammonia.
Explosion Data:

Sensitivity to Mechanical Impact:
Not available.

Sensitivity to Static Discharge:
Not available.

Protection of Firefighters:

Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

6. Accidental Release Measures

Personal Precautions:	Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.
Environmental Precautions:	Keep out of drains, sewers, ditches, and waterways. Minimize use of water to prevent environmental contamination.
Methods for Containment:	Contain and/or absorb spill with inert material (e.g. sand, vermiculite),then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate
Methods for Clean-Up:	Scoop up material and place in a disposal container. Provide ventilation.
Other Information:	Not available.

7. Handling and Storage

Handling:
Avoid contact with skin and eyes. Do not swallow. Do not breathe gas/fumes/vapor/spray. Use only in well-ventilated areas. Handle and open container with care. When using do not eat or drink. Wash hands before eating, drinking, or smoking.

Storage:
Keep out of the reach of children. Keep container tightly closed. Store in a cool place.

8. Exposure controls and personal protection

Exposure Guidelines:

Ingredient	Exposure Limits ACGIH-TLV
Ammonia	25 ppm
Isopropanol	200 ppm
Fatty acids, C16-18 and C18-unsaturated	1 mg/m³
1,2-Propylene glycol	0.025 mg/m³
Oxalic acid dihydrate	1 mg/m³
Silica, crystalline, quartz	0.025 mg/m³
Poly(oxy-1,2-ethanediyl), .alpha.-undecyl-.omega.-hydroxy-	Not available.

Engineering Controls:

Use ventilation adequate to keep exposures (airborne levels of dust,fume, vapor, etc.) below recommended exposure limits.

Personal Protective Equipment:
Eye/Face Protection:
Wear eye/face protection.

Hand Protection:
Wear suitable gloves.

Skin and Body Protection:
Wear suitable protective clothing.

Respiratory Protection:
In case of insufficient ventilation, wear suitable respiratory equipment.
General Hygiene Considerations:
Handle according to established industrial hygiene and safety practices.

9. Physical and chemical properties

Appearance:	Cream.
Colour:	Off white.
Odour:	Slight ammonia.
Odour Threshold:	Not available.
Physical State:	Liquid
pH:	9.5-10
Viscosity:	Not available.
Freezing Point:	Not available.
Boiling Point:	Not available.
Flash Point:	> 90.6 °C (> 195 °F)
Evaporation Rate:	Not available.
Lower Flammability Limit:	Not available.

Upper Flammability Limit:	Not available.
Vapor Pressure:	Not available
Vapor Density:	Not available.
Specific Gravity:	1.14
Solubility in Water:	Partial.
Coefficient of Water/Oil Distribution:	Not available.
Auto-ignition Temperature:	Not available.
Percent Volatile, wt. %:	Not available.
VOC content, wt. %:	Not available.

10. Stability and reactivity

Stability:	Stable under normal storage conditions.
Conditions of Reactivity:	Heat. Incompatible materials.
Incompatible Materials:	Strong oxidizers. Mineral acids. Chlorine bleach.
Hazardous Decomposition Products:	May include, and are not limited to: oxides of carbon,oxides of nitrogen, ammonia.
Possibility of Hazardous Reactions:	No dangerous reaction known under conditions of normal use.

11. Toxicological information

EFFECTS OF ACUTE EXPOSURE:

Component Analysis

Ingredient	LD50 (oral)	LC50
Ammonia	350 mg/kg, rat	5.1 mg/L 1hr, rat
Isopropanol	4396 mg/kg, rat	72.6 mg/L 4hr, rat
Fatty acids, C16-18 and C18-unsaturated	Not available.	Not available.
1,2-Propylene glycol	20000 mg/kg, rat	Not available.
Oxalic acid dihydrate	375 mg/kg, rat	Not available.

Silica, crystalline, quartz	500 mg/kg, rat	Not available.
Poly(oxy-1,2-ethanediyl), .alpha.-undecyl-.omega.-hydroxy-	Not available.	Not available.

12. Ecological information

Ecotoxicity:	May cause long-term adverse effects in the aquatic environment.
Persistence / Degradability:	Not available.
Bioaccumulation / Accumulation:	Not available.
Mobility in Environment:	Not available.

13. Disposal considerations

Disposal Instructions:
This material must be disposed of in accordance with all local, state, provincial, and federal regulations.

14. Transport information

TDG Classification:
Not regulated

15. Regulatory information

Federal Regulations:
Canada:
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.

Global Inventories:
Ingredient Canada
DSL/NDSL

Ingredient	Canada DSL/NDSL
Ammonia	DSL

Isopropanol	DSL
Fatty acids, C16-18 and C18-unsaturated	DSL
1,2-Propylene glycol	DSL
Oxalic acid dihydrate	No.*
Silica, crystalline, quartz	DSL
Poly(oxy-1,2-ethanediyl), .alpha.-undecyl-.omega.-hydroxy-	DSL

Ammonia DSL
Isopropanol DSL
Fatty acids, C16-18 and C18-unsaturated DSL
1,2-Propylene glycol DSL
Oxalic acid dihydrate No.*
Silica, crystalline, quartz DSL
Poly(oxy-1,2-ethanediyl), .alpha.-undecyl-.omega.-hydroxy- DSL

HMIS - Hazardous Materials Identification System:
Health - 1 Flammability - 1 Physical Hazard - 0 PPE – B

NFPA - National Fire Protection Association:
Health - 1 Fire - 1 Reactivity - 0
Hazard Rating: 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme

WHMIS Classification(s):
Class D2B - Skin/Eye Irritant

WHMIS Hazard Symbols:

SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:
ACGIH (G) American Conference of Governmental Industrial Hygienists.
A1 - Confirmed human carcinogen.
A2 - Suspected human carcinogen.
A3 - Animal carcinogen.
A4 - Not classifiable as a human carcinogen.
A5 - Not suspected as a human carcinogen.
IARC (I) International Agency for Research on Cancer.
1 - The agent (mixture) is carcinogenic to humans.

2A - The agent (mixture) is probably carcinogenic to humans; there is limited evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals.

2B - The agent (mixture) is possibly carcinogenic to humans; there is limited evidence of carcinogenicity in humans in the absence of sufficient evidence of carcinogenicity in experimental animals

3 - The agent (mixture, exposure circumstance) is not classifiable as to its carcinogenicity to humans.

4 - The agent (mixture, exposure circumstance) is probably not carcinogenic to humans.

NTP (N) National Toxicology Program.
1 - Known to be carcinogens.
2 - Reasonably anticipated to be carcinogens.

16. Other information

The data given here is based on current knowledge and experience. This Safety Data Sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product's properties The data given here only applies when product used for proper application(s). The product is not sold as suitable for other applications usage in such may cause risks not mentioned in this sheet. Do not use for other application(s) without seeking advice from manufacturer.