Material Safety Data Sheet

PHENOLPHTHALEIN INDICATOR (RXSOL-60-6605-218)

1. Product and Company Identifaction

Product Name	PHENOLPHTHALEIN INDICATOR
Part Number	RXSOL-60-6605-218

Company Details:

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

Branch : Kandla, Mumbai , Chennai, Vizag, Kolkata, UAE , OMAN , CANADA and KENYA

Phone	+91 22 20871200 - 1400
Fax	+91 22 27612100 :::AOH :0091 9821214367
Email	mail@rxmarine.com
Website	www.rxmarine.com

2. Composition / informationon ingredients

Chemical Name	CAS	EC .NO	% by Weight
Phenolphthalein Powder	77-09-8	205-609-7	100%

3. Hazards Identification

Signal Word	NA
Potential Acute Health Effects	Slightly hazardous in case of skin contact(irritant),of eye contact (irritant), of ingestion, of inhalation.
Potential Chronic Health Effects	CARCINOGENIC EFFECTS: Classified 2B (Possible for human.) by IARC. Classified 2 (Some evidence; reasonably anticipated to be a human carcinogen.) by NTP. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance may be toxic to kidneys. Repeated or prolonged exposure to the substance can produce target organs damage
Supplemental Hazard Statements	None

4. First Aid Measures

General advice	NA
If inhaled	NA
Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention..
Swallowed	NA
Skin Contact	In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used.Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
Serious Skin Contact:	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Getmedical attention.

Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.
Notes to Physician	NA
Most important symptoms and effects, both acute and delaye	NA

5. Fire-fighting Measures

Flammability	May be combustible at high temperature.
Auto-Ignition Temperature	NA
Flash Point	NA
Products of Combustion	These products are carbon oxides (CO, CO2).
Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	For this substance/mixture no limitations of extinguishing agents are given.
Special hazards arising from the substance or mixture	As with most organic solids, fire is possible at elevated temperatures
Further information	Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.
Hazardous combustion products	Fire may cause the evolution of Sulphur oxides, nitrogen oxides.
Advice for firefighters	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.
Protective Equipment	NA
Specific Hazards Arising from the Chemical	Has a fire-promoting effect due to the release of oxygen. Ambient fire may liberate hazardous vapours.
Fire Hazards in Presence of Various Substances	Slightly flammable to flammable in presence of heat. Non-flammable in presence of shocks.
Explosion Hazards in Presence of Various Substances	Slightly explosive in presence of open flames and sparks. Non-explosive in presence of shocks.

6. Accidental Release Measures

Small Spill	Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements. Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleanin spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
Large Spill	Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on thecontaminated surface and allow to evacuate through the sanitary system.

7. Handling and Storage

Handling	NA
Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area.
Advice on safe handling	NA
Advice on protection against fire and explosion	NA
Hygiene measures	NA
Precautions	Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If you feel unwell, seek medical attention and show the label when possible. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents

8. Exposure controls and personal protection

Engineering Control	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
Personal Protection	Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.
Eye/face protection	Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses
Body Protection	Protective clothing.
Other Protection Measure	Handle in accordance with good industrial hygiene and safety practice.
Control of environmental exposure	Do not let product enter drains.



Gloves



Suit

9. Physical and chemical properties

Odor Threshold	Not Applicable
pH	Not Applicable
Melting Point	-61°C
Boiling Point	153°C
Critical Temperature	Not available.
Flash Point	58°C - closed cup
Evaporation Rate	Not Applicable
Flammability (solid, gas)	The product is not flammable.
Explosive limits	No Data Available
Upper/lower flammability or explosive limits	No data available
Autoignition temperature	The substance or mixture is not classified as self heating.
Decomposition temperature	No data available
Vapour pressure	The highest known value is 17.535 mm of Hg (@ 20°C) (Water).
Density	1,85 g/cm3 at 25°C - lit.
Vapour Density	The highest known value is 17.535 mm of Hg (@ 20°C) (Water).
Volatility	Not available.
Odor Threshold	Not available
Specific Gravity	NA
Partition coefficient	No data available
Explosive properties	None
Water/Oil Dist. Coeff	The product is more soluble in oil; log(oil/water) = 2.4
Ignition temperature	No information available.

Test	**Specification**	**Result**
Appearance (Color)	White to off white	Off white
Appearance (Form)	Powder	Powder
Solubility	1%, Ethanol; clear with no more than a faint trace of turbidity	Pass
pH-transition	8.0	8.0
Color	Colorless	Colorless
pH-transition	8.2	8.2
Color	Pale pink	Pale pink
pH-transition	8.6	8.6
Color	Pink	Pink
pH-transition	10.0	10.0

Color	Red	Red
Infrared spectrum	Conforms to structure	Conforms
ACS specifications	Meets current ACS specification	Corresponds to ACS (11th Ed.)

10. Stability and reactivity

Reactivity	No data available
Chemical Stability	Stable under recommended storage conditions.
Instability Temperature	Not available.
Conditions of Instability	Excess heat
Possibility of hazardous reactions	NA
Conditions to avoid	No information available
Incompatibility with various substances	Reactive with oxidizing agents.
Special Remarks on Corrosivity	Not available.
Polymerization	NA
conditions	Carbon monoxide, oxides of nitrogen, carbon dioxide

11. Toxicological information

Routes of Entry	Inhalation. Ingestion.
Toxicity to Animals	LD50: Not available. LC50: Not available.
Chronic Effects on Humans	Classified 2B (Possible for human.) by IARC. Classified 2 (Some evidence; reasonably anticipated to be a human carcinogen.) by NTP. May cause damage to the following organs: kidneys.
Other Toxic Effects on Humans	LD [Rat] - Route: Oral; Dose: >1000 mg/kg Lowest Published Lethal Dose: LDL [Rat] - Route: Intraperitoneal; Dose: 500 mg/kg
Special Remarks on Chronic Effects on Humans	May cause cancer (tumorigenic) based on animal data. May affect genetic material (mutagenic)
Special Remarks on other Toxic Effects on Humans	Acute Potential Health Effects: Skin: May cause skin irritation. Eyes: May cause eye irritation. Ingestion: May cause gastrointestinal tract irritation (gastritis) with nausea, vomiting, diarrhea. Phenolphthalein acts as a laxative. It may also affect the liver (liver failure). Inhalation: May cause respiratory tract irritation. Low hazard for industrial handling. Chronic Potential Health Effects: Ingestion: Possible cancer hazard based on tests with laboratory animals. No human data found at this time. May affect genetic material. It may cause chronic diarrhea, irritation of the pancreas, and also affect the liver (liver failure), blood (changes in red blood cell count, anemia), metabolism(weight loss, depletion of electrolytes), and kidneys. Prolonged or repeated ingestion may also cause allergic reactions involving swelling of the eyelids and skin rashes

12. Ecological information

Ecotoxicity	No data available
BOD5 and COD	Not available.
Products of Biodegradation	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Toxicity of the Products of Biodegradation	The product itself and its products of degradation are not toxic
Special Remarks on the Products of Biodegradation	Not available.

13. Disposal considerations

Waste Product	Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solventand burn in a chemical incinerator equipped with an afterburner and scrubber

14. Transport information

DOT Classification	Not a DOT controlled material (United States).
Identification	Not applicable.
Special Provisions for Transport	Not applicable

15. Regulatory information

Federal and State Regulations	California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: Phenolphthalein, powder California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: Phenolphthalein, powder TSCA 8(b) inventory: Phenolphthalein, powder
Other regulations	OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances
WHMIS (Canada)	Not controlled under WHMIS (Canada).
DSCL (EEC)	R45- May cause cancer. S24/25- Avoid contact with skin and eyes.
HMIS (U.S.A.)	Health Hazard: 1 Fire Hazard: 1 Reactivity: 0 Personal Protection: E
National Fire Protection Association (U.S.A.)	Health: 1 Flammability: 0 Reactivity: 0
Specific hazard	Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Splash goggles
References	Not available

16. Other information

Other Information	The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and weassume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if RX Marine International has been advised of the possibility of such damages.