Material Safety Data Sheet

PHENYL HYDRAZINE AR (RXSOL-60-6605-220)

1. Product and Company Identifaction

Product Name	PHENYL HYDRAZINE AR
Part Number	RXSOL-60-6605-220

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
Webside	**www.rxmarin.com**

2. Composition / informationon ingredients

Chemical Name	CAS	EC number	Weight
PHENYL HYDRAZINE AR	100-63-0	202-873-5	100%

3. Hazards Identification

Signal Word	-
Hazard Statements	H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation. H335 - May cause respiratory irritation. H341 - Suspected of causing genetic defects. H350 - May cause cancer. H372 - Causes damage to organs through prolonged or repeated exposure. H400 - Very toxic to aquatic life.
P280 Wear protective gloves.P305 + P351 + P338	Wear eye protection/ face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Precautionary statements - response	P201 - Obtain special instructions before use. P273 - Avoid release to the environment. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Response	None
Disposal	NA
Prevention	NA
Supplemental Hazard Statements	None
Other hazards	NA.

4. First Aid Measures

General advice	Show this material safety data sheet to the doctor in attendance.

If inhaled	Move the victim into fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and consult a doctor immediately. Do not use mouth to mouth resuscitation if the victim ingested or inhaled the chemical.
Butyric Acid	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
swallowed	After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.
Skin Contact	Immediately call a POISON CENTER/doctor. Take off immediately all contaminated clothing. Wash with plenty of water/…. Specific measures (see supplemental first aid instruction on this label). Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention. Specific treatment (see supplemental first aid instruction on this label). If skin irritation or rash occurs
Inhalation:	Rinse mouth. Obtain emergency medical attention. Immediately call a POISON CENTER/doctor. Specific treatment (see supplemental first aid instruction on this label).l.
Ingestion:	Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor or Poison Control Center immediately.
Notes to Physician	Treat symptomatically
If swallowed	Toxic if swallowed.
Most important symptoms and effects, both acute and delaye	No data available
Indication of any immediate medical attention and special treatment needed	No data available

5. Fire-fighting Measures

Flammability	NA
Flash Point	NA
Suitable extinguishing media	Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use a heavy water stream
Special hazards arising from the substance or mixture	Carbon oxides Mixture with combustible ingredients. Vapors are heavier than air and may spread along floors. Forms explosive mixtures with air on intense heating. Development of hazardous combustion gases or vapours possible in the event of fire.
Further information	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	Wear self-contained breathing apparatus for firefighting if necessary.
Protective Equipment	Do not attempt to take action without suitable protective equipment
Specific Hazards Arising from the Chemical	Has a fire-promoting effect due to the release of oxygen.Ambient fire may liberate hazardous vapours.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	Evacuate unnecessary personnel
Spillage	Oxidizing material. Stop leak if without risk. Avoid contact with a combustible material (wood, paper, oil, clothing...). Keep substance damp using water spray. Do not touch spilled material. Prevent entry into sewers, basements or confined areas dike if needed. Eliminate all ignition sources. Call for assistance on disposal.
Personal Protection	Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert. Advice for emergency responders: Protective equipment see section 8.
Enviromental Precaution	Prevent further spillage or leakage if it is safe to do so. Do not let the chemical enter drains. Discharge into the environment must be avoided.
Methods and materials for containment and cleaning	Clear up rapidly by scoop or vacum

7. Handling and Storage

Advice on safe handling	Work under hood. Do not inhale substance/mixture.
Advice on protection against fire and explosion	Keep away from open flames, hot surfaces and sources of ignition.Take precautionary measures against static discharge
Hygiene measures	Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. For precautions
Precautions for safe handling	Handling in a well ventilated place. Wear suitable protective clothing. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Use non-sparking tools. Prevent fire caused by electrostatic discharge steam.
Conditions for safe storage, including any incompatibilities	Store the container tightly closed in a dry, cool and well-ventilated place. Store apart from foodstuff containers or incompatible materials.
Storage conditions	Tightly closed. Keep away from heat and sources of ignition. Keep locked up or in an area accessible only to qualified or authorized persons. Light sensitive. Moisture sensitive.
Storage conditions	Tightly closed. Dry
Storage class	Storage class (TRGS 510): 13: Non Combustible Solids
Specific end use(s)	Apart from the uses mentioned in section 1.2 no other specific uses are stipulated
Handling	Keep away from heat. Keep away from sources of ignition. Keep away from combustible material.. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as reducing agents, combustible materials, organic materials, metals
Advice on general occupational hygiene	Advice on safe handling Observe label precautions. Change contaminated clothing. Wash hands after working with substance.

8. Exposure controls and personal protection

Occupational Exposure limit values	No data available
Biological limit values	No data available
Exposure controls	Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Set up emergency exits and the riskelimination area
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.
Eye/face protection	Wear tightly fitting safety goggles with side-shields conforming to EN 166(EU) or NIOSH (US)
Body Protection	protective clothing
Skin protection	Wear fire/flame resistant and impervious clothing. Handle with gloves. Gloves must be inspected prior to use. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.
Respiratory protection	If the exposure limits are exceeded, irritation or other symptoms are experienced, use a full-face respirator.
Other Protection Measure	Handle in accordance with good industrial hygiene and safety practice.
Control of environmental exposure	Do not let product enter drains. Risk of explosion.
Thermal hazards	No data available



Gloves



Suit

9. Physical and chemical properties

Physical state	Solid
Colour	Pale yellow.
Odour	Faint aromatic odor.

Odor Threshold	Not Applicable
pH	Not Applicable
Melting Point	18 - 21
Boiling Point	238 - 241
Flash Point	89 °C
Evaporation Rate	Not Applicable
Flammability (solid, gas)	No data available
Explosive limits	No Data Available
Upper/lower flammability or explosive limits	No data available
Autoignition temperature	No data available
Decomposition temperature	No data available
Vapour pressure	No Data Available
Density	1.098 g/cm³
Vapour Density	No Data Available
Specific Gravity	No data available
Partition coefficient	No data available
Explosive properties	? 0.011 vol %
Solubility	DMSO (Slightly), Water (Slightly)
Ignition temperature	No information available.
Particle characteristics	No data available
Relative vapour density at 20 °C	3.7

10. Stability and reactivity

Reactivity	No data available
Stability	Stable under normal conditions.
Possibility of hazardous reactions	No data available
Conditions to avoid	Direct sunlight. Air contact. Moisture
Incompatible materials	No data available
Hazardous Polymerization	No data available

11. Toxicological information

Acute toxicity	Toxic in contact with skin. Toxic if inhaled. Toxic if swallowed
Skin corrosion/irritation	Causes skin irritation
Serious eye damage/eye irritation	Causes serious eye irritation
Respiratory or skin sensitization	May cause an allergic skin reaction
Serious eye damage/eye irritation	No data available
Rout Of Entry	Inhalation. Ingestion.
Toxicity to Animal	WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE Acute oral toxicity (LD50): 689 mg/kg [Rat].
Toxic Effects on Human	May cause damage to the following organs: upper respiratory tract. Other Toxic Effects on Humans: Hazardous in case of skin contact (irritant, sensitizer), of ingestion, of inhalation (lung irritant, lung sensitizer).
Germ cell mutagenicity	No data availableSuspected of causing genetic defects
Reproductive toxicity	No data available
Specific target organ toxicity - single exposure	No data available

Special Remarks on other Toxi Effects on Humans:	Acute Potential Health Effects: Skin: Causes skin irritation. May cause skin sensitization, an allergic reation, which becomes evident upon re-exposure to this material. Eyes: Causes eye irritation. Ingestion: Causes gastrointestinal (digestive) tract irritation with nausea, vomiting, and diarrhea. May be harmful if swallowed. Inhalation: Causes respiratory tract irritation. May cause chemical pneumonitis and pulmonary edema, inflammation, edema of bronchi and larynx. Chronic Potential Health Effects: Repeated or prolonged skin exposure may cause allergic reactions in sensitive individuals. Repeated or prolonged exposure by inhalation may affect respiration and metabolism.
Additional Information	Endocrine disrupting properties
Assessment	NA.
Endocrine disrupting properties	NA

12. Ecological information

Persistence and degradability	No data available
Toxicity	Very toxic to aquatic life.
Bioaccumulative potential	No data available
Toxicity to fish	No data available
Toxicity to daphnia and other aquatic invertebrates	No data available
Toxicity to algae	No data available
Eco Toxicity	Not Available
COD and BOD 5	Not Available
Products Biodegradation:	No data available
Mobility in soil	No Information available
Results of PBT and vPvB assessment	No data available
Endocrine disrupting properties	No data available
Assessment	No data available
Other adverse effects	No data available

13. Disposal considerations

Disposal methods	The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.
Contaminated packaging	Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
Waste treatment Method	Hazardous waste due to toxicity

14. Transport information

UN number	UN-No. (ADR) : 2572
	UN-No. (IMDG) : 2572
	UN-No. (IATA) : 2572
	UN-No. (ADN) : 2572
	UN-No.(RID) : 2572

UN proper shipping name	Proper Shipping Name (ADR) : PHENYLHYDRAZINE Proper Shipping Name (IMDG) : PHENYLHYDRAZINE Proper Shipping Name (IATA) : Phenylhydrazine Proper Shipping Name (ADN) : PHENYLHYDRAZINE Proper Shipping Name (RID) : PHENYLHYDRAZINE Transport document description (ADR) : UN 2572 PHENYLHYDRAZINE, 6.1, II, (D/E), ENVIRONMENTALLY HAZARDOUS Transport document description (IMDG) : UN 2572 PHENYLHYDRAZINE, 6.1, II, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUSTransport document description (IATA) : UN 2572 Phenylhydrazine, 6.1, II, ENVIRONMENTALLY HAZARDOUS Transport document description (ADN) : UN 2572 PHENYLHYDRAZINE, 6.1, II, ENVIRONMENTALLY HAZARDOUS Transport document description (RID) : UN 2572 PHENYLHYDRAZINE, 6.1, II, ENVIRONMENTALLY HAZARDOUS
Transport hazard class(es)	Transport hazard class(es) (ADR) : 6.1 Danger labels (ADR) : 6.1 IMDG Transport hazard class(es) (IMDG) : 6.1 Danger labels (IMDG) : 6.1 IATA Transport hazard class(es) (IATA) : 6.1 Hazard labels (IATA) : 6.1 ADN Transport hazard class(es) (ADN) : 6.1 Danger labels (ADN) : 6.1 RID Transport hazard class(es) (RID) : 6.1 Danger labels (RID) : 6.1
Packaging group	Packing group (ADR) : II Packing group (IMDG) : II Packing group (IATA) : II Packing group (ADN) : II Packing group (RID) : II
Environmental hazards	Dangerous for the environment : Yes Marine pollutant : Yes Other information : No supplementary information available
Special precautions for user	- Overland transport Classification code (ADR) : T1 Limited quantities (ADR) : 100ml Excepted quantities (ADR) : E4 Packing instructions (ADR) : P001, IBC02 Mixed packing provisions (ADR) : MP15 Portable tank and bulk container instructions (ADR) : T7 Portable tank and bulk container special provisions (ADR) : TP2 Tank code (ADR) : L4BH Tank special provisions (ADR) : TU15, TE19 Vehicle for tank carriage : AT Transport category (ADR) : 2 Special provisions for carriage - Loading, unloading and handling (ADR) : CV13, CV28 Special provisions for carriage - Operation (ADR) : S9, S19 Hazard identification number (Kemler No.) : 60 Orange plates : Tunnel restriction code (ADR) : D/E EAC code : •3X - Transport by sea Limited quantities (IMDG) : 100 ml Excepted quantities (IMDG) : E4 Packing instructions (IMDG) : P001 IBC packing instructions (IMDG) : IBC02 Tank instructions (IMDG) : T7 Tank special provisions (IMDG) : TP2 EmS-No. (Fire) : F-A EmS-No. (Spillage) : S-A Stowage category (IMDG) : A Stowage and handling (IMDG) : SW2 MFAG-No : 153 - Air transport PCA Excepted quantities (IATA) : E4 PCA Limited quantities (IATA) : Y641 PCA limited quantity max net quantity (IATA) : 1L PCA packing instructions (IATA) : 654 PCA max net quantity (IATA) : 5L CAO packing instructions (IATA) : 662 CAO max net quantity (IATA) : 60L ERG code (IATA) : 6L - Inland waterway transport Classification code (ADN) : T1 Special provisions (ADN) : 802 Limited quantities (ADN) : 100 ml Excepted quantities (ADN) : E4 Equipment required (ADN) : PP, EP, TOX, A Ventilation (ADN) : VE02 Number of blue cones/lights (ADN) : 2
- Rail transport	Classification code (RID) : T1 Limited quantities (RID) : 100ml Excepted quantities (RID) : E4 Packing instructions (RID) : P001, IBC02 Mixed packing provisions (RID) : MP15 Portable tank and bulk container instructions (RID) : T7 Portable tank and bulk container special provisions (RID) : TP2 Tank codes for RID tanks (RID) : L4BH Special provisions for RID tanks (RID) : TU15 Transport category (RID) : 2 Special provisions for carriage - Loading, unloading and handling (RID) : CW13, CW28, CW31 Colis express (express parcels) (RID) : CE5 Hazard identification number (RID) : 60

Transport in bulk according to IMOinstruments	No data available

15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture	NA
Safety, health and environmental regulations specific for the product in question	NA
National legislation	NA
DSCL (EEC)	NA
Other regulations	NA
Chemical Safety Assessment	NA

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.