Material Safety Data Sheet

PHENYL HYDRAZINE FOR SYNTHESIS (RXSOL-60-6605-221)

1. Product and Company Identifaction

Product Name	PHENYL HYDRAZINE FOR SYNTHESIS
Part Number	RXSOL-60-6605-221

Company Details:

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

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

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2. Composition / informationon ingredients

Camical Name	CAS	EC number	Weight %
PHENYL HYDRAZINE FOR SYNTHESIS	100-63-0	202-873-5	98%

3. Hazards Identification

Signal word	-
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Carcinogenicity, Category 1B H350 Acute toxicity (dermal), Category 3 H311 Acute toxicity (inhal.), Category 3 H331 Acute toxicity (oral), Category 3 H30 Specific target organ toxicity — Repeated exposure, Category 1 H372 Germ cell mutagenicity, Category 2 H341 Serious eye damage/eye irritation, Category 2 H319 Skin corrosion/irritation, Category 2 H315 Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation H335 Sensitisation — Skin, category 1 H317 Hazardous to the aquatic environment — Acute Hazard, Category 1 H400
Classification according to Directive 67/548/EEC or 1999/45/EC	Carc.Cat.2; R45 Muta.Cat.3; R68 T; R23/24/25 T; R48/23/24/25 Xi; R36/38 R43 N; R50 Full text of R-phrases: see section 16
Adverse physicochemical, human health and environmental effects	No additional information available
statements Statements	NoneH301+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
Precautionary statements (CLP)	P201 - Obtain special instructions before use P273 - Avoid release to the environment P280 - Wear protective gloves/protective clothing/eye protection/face protectionP301+P310 - IF SWALLOWED: immediately call a POISON CENTER or doctor/physician P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

4. First Aid Measures

First-aid measures after inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell

First-aid measures after skin contact	Immediately call a POISON CENTER or doctor/physician. Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water. Specific measures (see ... on this label). Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention. Specific treatment (see ... on this label). If skin irritation or rash occurs:
First-aid measures after eye contact	RRinse 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. emove contaminated clothing Flush exposed area with water and follow by washing with soap if available.
First-aid measures after ingestion	Rinse mouth. Obtain emergency medical attention. Immediately call a POISON CENTER or doctor/physician. Specific treatment (see ... on this labe)
Symptoms/injuries	Suspected of causing genetic defects. May cause cancer. Causes damage to organs through prolonged or repeated exposure
Symptoms/injuries after inhalation	May cause an allergic skin reaction. May cause respiratory irritation
Symptoms/injuries after skin contact	Repeated exposure to this material can result in absorption through skin causing significant health hazard. Toxic in contact with skin. Causes skin irritation
Symptoms/injuries after eye contact	Causes serious eye irritation.
Symptoms/injuries after ingestion	Toxic if swallowed. Swallowing a small quantity of this material will result in serious health hazard

5. Fire-fighting Measures

Extinguishing media	Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use a heavy water stream.
Protection during firefighting	Do not attempt to take action without suitable protective equipment.
Special hazards arising from the substance or mixture	No additional information available
Advice for firefighters	Do not attempt to take action without suitable protective equipment.

6. Accidental Release Measures

Emergency procedures	Evacuate unnecessary personnel.
Protective equipment	Use personal protective equipment as required.
Personal Protection	NA
Enviromental Precaution	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Methods and materials for containment and cleaning	Clear up rapidly by scoop or vacuum.

7. Handling and Storage

Precautions for safe handling	Avoid breathing dust/fume/gas/mist/vapours/spray. Obtain special instructions before use. Use personal protective equipment as required. Do not handle until all safety precautions have been read and understood. Use only outdoors or in a wellventilated area. Do not breathe dust/fume/gas/mist/vapours/spray
Hygiene measures	Do not eat, drink or smoke when using this product. Wash ... thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.
Storage conditions	Keep container tightly closed. Store in original container. Store in a dry place. Protect from moisture.

8. Exposure controls and personal protection

Hand protection	Protective gloves
Eye protection	Chemical goggles or safety glasses
Skin and body protection	Wear suitable protective clothing
Respiratory protection	Wear respiratory protection




Gloves Suit

9. Physical and chemical properties

Physical state	Solid
Colour	Pale yellow.
Odour	faint aromatic odor
Odor Threshold	No data available
pH	Not determined
Melting Point	18 - 21
Freezing point	No data available
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
Relative vapour density at 20 °C	3.7
Upper/lower flammability or explosive limits	Upper explosion limit: 10 %(V) Lower explosion limit: 1.2 %(V)
Vapour density	NA
Relative density	NA
Vapour pressure	1 mm Hg at 71.80C
Partition coefficient	NA
Auto-ignition emperature	NA
Explosive properties	? 0.011 vol %
Solubility	DMSO (Slightly), Water (Slightly)
Ignition temperature	No information available.
Particle characteristics	No data available

10. Stability and reactivity

Reactivity	No additional information availablee
Stability	Stable under normal conditions..
Possibility of hazardous reactions	No additional information available
Conditions to avoid	Direct sunlight. Air contact. Moisture.
Incompatible materials	No additional information available
Hazardous decomposition products	No additional information available

11. Toxicological information

Acute toxicity	Dermal: Toxic in contact with skin. Inhalation: Toxic if inhaled. Oral: Toxic if swallowed.
Skin corrosion/irritation	Causes skin irritation
Serious eye damage/irritation	Causes serious eye irritation

Respiratory or skin sensitisation	May cause an allergic skin reaction.
Germ cell mutagenicity	Suspected of causing genetic defects.
Carcinogenicity	May cause cancer
Reproductive toxicity	Not classified
Specific target organ toxicity (single exposure)	May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	Causes damage to organs through prolonged or repeated exposure
Aspiration hazard	Not classified
Potential adverse human health effects and symptoms	Toxic if swallowed. Toxic in contact with skin

12. Ecological information

Bioaccumulative potential	No additional information available
Mobility in soil	No additional information available
Results of PBT and vPvB assessment	No additional information available
Other adverse effects	No additional information available

13. Disposal considerations

Product/Packaging disposal recommendations	Dispose of contents/container to
Ecology - waste materials	Hazardous waste due to toxicity.

14. Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

UN number	UN-No. (ADR) : 2572 UN-No. (IMDG) : 2572 UN-No.(IATA) : 2572 UN-No.(ADN) : 2572 UN-No. (RID) : 2572o
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 HAZARDOUS Transport 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
Packing 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 Tunnel restriction code (ADR) : D/E EAC code : •3X
- 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 and unloading (RID) : CW13, CW28, CW31 Colis express (express parcels) (RID) : CE5 Hazard identification number (RID) : 60

15. Regulatory information

No REACH Annex XVII restrictions

PHENYL HYDRAZINE FOR SYNTHESIS is not on the REACH Candidate List

PHENYL HYDRAZINE FOR SYNTHESIS is not on the REACH Annex XIV List

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.