Material Safety Data Sheet

Aniline Solution (RXSOL-60-6227-100)

1. Product and Company Identifaction

Product Name	RXSOL-60-6227-100
Product Type	Aniline Solution

Company Details:

RX MARINE INTERNATIONAL
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VASHI ,NEW BOMBAY 400703 INDIA

Phone	+91 22 65113333 / 5555 / 9999
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2. Composition / informationon ingredients

SARA 313 Component	CAS Number	Percent Comp.	Dimension	Exposure Limits
Aniline	CAS# 62-53-3	100%	V/V	OSHA TWA 5 ppm (19 mg/mf)

3. Hazards Identification

May be fatal if inhaled, swallowed or absorbed thru the skin Avoid all contact. Use with adequate ventilation. Wash thoroughly after use. Keep container closed.

Emergency Overview:Danger! May be fatal if swallowed, inhaled or absorbed through skin.
Causes irritation to skin, eyes and respiratory tract. Combustible liquid and vapor. May cause methemoglobinemia. Affects blood, cardiovascular system, central nervous system, liver and kidneys. Toxic. Affects ability of blood to carry oxygen. Symptoms may include bluish discoloration of lips and tongue, severe headache, nausea, confusion, dizziness, shock, respiratory paralysis, death.

Inhalation:Toxic. Lethal dose may be as little as one gram. Symptoms of ingestion parallel those of inhalation exposure.

Ingestion:May be absorbed through skin. Symptoms of skin absorption parallel those of inhalation exposure.

Skin:Vapor is an eye irritant. May cause tearing, blurred vision. Splashes may cause corneal damage.

Eye Contact:Aniline is a blood toxin, causing hemoglobin to convert to methemoglobin, resulting in cyanosis.

Chronic Exposure:Lengthy or repeated exposures may result in decreased appetite, anemia, weight loss, nervous system affects, and kidney, liver and bone marrow damage. Any exposure may cause an allergic skin reaction.

Aggravated by Exposure:Persons with pre-existing skin disorders or eye problems or impaired liver or kidney function may be more susceptible to the effects of the substance.

4. First Aid Measures

May be fatal if inhaled, swallowed or absorbed thru the skin Avoid all contact. Use with adequate ventilation. Wash thoroughly after use. Keep container closed.

SKIN:	Remove contaminated clothing. Wash exposed area with soap and water.

EYES:	Wash eyes with plenty of water for at least 15 minutes, lifting lids occasionally. Seek Medical Aid.
INHALATION:	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen
INGESTION:	If swallowed, induce vomiting immediately after giving two glasses of water. Never give anything by mouth to an unconscious person.

5. Fire-fighting Measures

Fire Extinguisher Type:	Any means suitable for extinguishing surrounding fire
Fire / Explosion Hazards:	Fire possible at elevated temperatures. Dust in sufficient quantities can form explosive mixtures with air.
Fire Fighting Procedure:	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and clothing.

6. Accidental Release Measures

Evacuate area. Ventilate area and remove ignition sources. Contain and recover when possible.

Ventilate area or leak or spill. Remove all sources of ignition.Wear appropriate personal protective equipment as specified in section 7. Isolate hazard area.Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Use nonsparking tools and equipment. Collect liquid in an appropriate container or absorb with an Inert material (e.g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust. Do not flush to sewer! Us regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities.

7. Handling and Storage

Store in a cool dry dark place. Do not get in eyes, on skin, on clothing. Wash thoroughly after handling

8. Exposure controls and personal protection

Respiratory Protection	Organic Vapor Cartridge
Ventilation	Local
OTHER	Mechanical
Protective Gloves	NIOSH Approved Gloves
EYE PROTECTION	Splash Goggles
Other Protective Equipment	Wear appropriate clothing to prevent skin exposure

9. Physical and chemical properties

BOILING POINT	184°C
VAPOR PRESSURE	1mm @34.8°C
MELTING POINT	-6°C
VAPOR DENSITY	3.22

EVAPORATION RATE	Information not available
Appearance /Odors	Clear,light red liquid / characteristic odor
Flash Point	70°C
Specific Gravity	1.02
Percent Volatile by Evaporation Standard	Information not available
Auto Ignition Temp	1139°C
Lower Flamm. Limit in Air	Information not available
Upper Flamm. Limit in Air	Information not available
Solubility in Water	Soluble

10. Stability and reactivity

STABILITY	Stable
CONDITIONS TO AVOID	Heat, Air, Light
MATERIALS TO AVOID	Oxidizing materials
HAZARDOUS DECOMPOSITION PRODUCTS	Carbon and Nitrogen Oxides, HCL and Aniline Fumes
HAZARDOUS POLYMERIZATION	Will Not Occur
Conditions to Avoid	None known

11. Toxicological information

NTP Carcinogen - Known: No, IARC Category- 3

12. Ecological information

Environmental Fate:When released into the soil, this material is expected to readily biodegrade. When released into the soil, this material may leach into groundwater. When released into the soil, this material may evaporate to a moderate extent. When released into water, this material is expected to readily biodegrade. When released into water, this material is expected to have a half-life between 10 and 30 days.This material has an experimentally-determined bioconcentration factor (BCF) of less than 100. This material is not expected to significantly bioaccumulate. When released into the air, this material is expected to be readily degraded by reaction with photochemically produced hydroxyl radicals. When released into the air, this material is expected to be readily degraded by photolysis. When released into the air, this material is expected to have a half-life of less than 1 day. When released into the air, this material is not expected to adversely affect the ozone layer.

Environmental Toxicity:This material is expected to be very toxic to terrestrial life. This material is expected to be very toxic to aquatic life. The LC50/96-hour values for fish are between 10 and 100 mg/l. The EC50/48-hour values for daphnia are less than 1 mg/l.

13. Disposal considerations

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved incinerator or disposed in a RCRA approved waste facility. Processing, use or contamination of this product may

change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport information

DOT Classification: UN1547, Aniline, 6.1, PG II

DOT Regulations may change from time to time. Please consult the most recent D.O.T. regulations.

15. Regulatory information

Chemical Inventory Status –
Part 1:Ingrdient
Aniline (62-53-3)
TSCA Yes
EC Yes
Japan YES
Australia Yes

Chemical Inventory Status –
Part 2:Ingredient
Aniline (62-53-3)
Korea Yes
DSL Yes
NDSL No
Phil. Yes

Federal, State & International Regulations –
Part 1: Ingredient.
Aniline (62-53-3)
RQ 5000
TPQ 1000*
List Yes
Chemical Catg: No

Federal, State &
International Regulations –
Part 2:Ingredient
Aniline (62-53-3)
CERCLA 5000
261.33 U012
8(d) No

Chemical Weapons Convention:No
TSCA 12 (b):No
CDTA:Yes (Pure/Liquid)
SARA 311/312: Acute: Yes
Chronic: Yes
Fire: Yes
Pressure: No
Reactivity: No
Australian Hazchem Code: 3x
Poison Schedule: S6

16. Other information

Conditions aggravated/Target organs: Persons with preexisting skin, eye, and respiratory disorders may be more susceptible. DANGER! May be fatal if swallowed, inhaled or absorbed through skin. Causes irritation to skin, eyes and respiratory tract. Combustible liquid and vapor. Target organs: Affects blood, cardiobascular system, central nervous system, liver and kidnyes.
Toxic by inhalation. Affects ability of blood to carry oxygen. Toxic by ingestion even as little as 1 gram. Toxic! Suspect Carcinogen! Acute: Irritation to skin, eyes, lungs, mucous membranes, and GI tract. Nausea, dizziness, headache. Chronic: Dermatitis, cyanosis,

Flammability

Health Reactivity

Revisions	NFPA
7/28/2010	0.1 updated msds to 16 section from 10 section msds. STN

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