Material Safety Data Sheet

Hydrazine Test Kit Colorimetric Procedure (RXSOL-62-5524-001)

1. Product and Company Identifaction

Product Name	RXSOL-62-5524-001
Product Type	Hydrazine Test KIT Method: photometric 0.005 - 2.00 mg/l N2H4

Company Details:

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

Stock Point : Mumbai, Kandla, Chennai, Vizag, Kolkata, Fujairah

Phone	+91 22 27815540 / 41
Fax	+91 22 2781 1318 :::AOH :0091 9821214367
Email	mail@rxmarine.com

2. Composition / informationon ingredients

Chemica Name	Concentration	CAS Number	EC Number	R Phrases*	Symbols
Formulatory Powder	2.5-5 %	----------	--------	Not Applicable	Not Applicable
Sodium Hydrogen Sulfate	90-100 %	7681-381	231-655-7	41	Xi
Proprietory Neutralizer	1-5 %	----------	.....	Not Applicable	Not Applicable

3. Hazards Identification

Odour	Characteristic odour.
Appearance	Liquid, pale yellow, soluble in water.
Contact with eyes	Causes irritation.
Contact with skin	In cases of severe exposure, irritation may develop.
Inhalation	Vapours or aerosols may cause irritation of eyes, nose and respiratory tract.
Ingestion	The ingestion of significant quantities may cause gastro-intestinal disturbances.

Labelling.(REGULATION (EC) No 1272/2008)

Hazard pictograms
Signal word Warning
Hazard statements
H290 May be corrosive to metals.
H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.

Precautionary statements Prevention
P280 Wear protective gloves. Response

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Reduced labelling (?125 ml)

Hazard pictograms

Signal word Warning

Hazard statements
H317 May cause an allergic skin reaction.

Precautionary statements .P280 Wear protective gloves.

4. First Aid Measures

Contact with skin	Remove contaminated clothing immediately and drench affected skin with plenty of water. Then wash with soap and water Seek medical advice if necessary
Contact with eyes	If substance has got into eyes, immediately wash out with plenty of water for at least 15 minutes .Obtain immediate medical attention Ingestion, Never give anything by mouth to an unconscious person Give plenty of water to drink
Ingestion	Never give anything by mouth to anunconscious person . Give plenty of water to drink . Obtain immediate medical attention
Inhalation	Remove patient to fresh air. Keep warm and at rest, in a half up right position. Loosen clothing.Seek medical attention if irritation persists
General	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)(S45)

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.

After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

Most important symptoms and effects, both acute and delayed

Irritant effects, Allergic reactions, CNS disorders. The following applies to aromatic amines in general: systemic effect: methaemoglobinaemia with headache, cardiac dysrhythmia, drop in blood pressure, dyspnoea, and spasms, principal symptom: cyanosis (blue discolouration of the blood).

Indication of any immediate medical attention and special treatment needed.

5. Fire-fighting Measures

Fire-fighting measures	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Smoke from fires is irritating Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions

6. Accidental Release Measures

Personal Precautions	Wear protective clothing as per section 8
Environmental Precautions	No special precautions are required for this product Immediate Actions. Shut off source of leak if safe to do so
Clean Up Actions	Absorb spillage in inert material and shovel up. Flush spill area with copious amounts of water

7. Handling and Storage

Handling	The usual precautions for handling chemicals should be observed. Eyewash bottles should be available - See Section 8. Advice for non-emergency personnel: Do not breathe vapours, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.
Storage	Keep only in the original container in a cool, well ventilated place (S3/9/49) Protect from frost. After inhalation: use fresh air. Take up with liquid-absorbent and neutralising material

8. Exposure controls and personal protection

Exposure Limits	There are no recommended or established controls for this product.
Exposure controls	No special ventilation is required unless the product is used in a spray form.
	Wear suitable protective clothing, including eye/face protection and gloves (plastic or rubber are recommended) No respiratory protection is required unless subject to contact with substance mist. Individual protection measures Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier. Eye/face protection Safety glasses
	Hand protection full contact: splash contact:
Occupational exposure controls	Glove material: Glove thickness: Break through time: Glove material: Glove thickness: Break through time:
	Nitrile rubber 0.11 mm > 480 min Nitrile rubber 0.11 mm > 480 min
	The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374,

9. Physical and chemical properties

Odour	Characteristic Odour
Appearance	Liquid, pale yellow, soluble in water
pH	1-1.5 at 5 - 10 % concentration
Boiling point	No Information
Relative Density with Water = 1	2662
Vapour pressure	not known

10. Stability and reactivity

- This article is considered stable under normal conditions

Chemical stability : The product is chemically stable under standard ambient conditions (room temperature) .

Possibility of hazardous reactions : Violent reactions possible with: The generally known reaction partners of water. Strong oxidizing agents, Bases

Conditions to avoid : No information available

Incompatible materials : Animal/vegetable tissues

Gives off hydrogen by reaction with metals. Metals

Hazardous decomposition products : In the event of fire: See section 5.

11. Toxicological information

Toxicological information	No experimental data available Inhalation. Vapours or aerosols may cause irritation of Eyes, Nose and Respiratory tract.
Contact with skin	In cases of severe exposure, redness and irritation may develop.
Contact with eyes	Causes irritation.
Ingestion	May cause gastrointestinal disturbances
Carcinogenicity	No evidence of carcinogenic effects.

Information on toxicological effects Mixture

Acute oral toxicity : This information is not available.

Acute inhalation toxicity Symptoms: Possible symptoms:, mucosal irritations

Acute dermal toxicity :This information is not available.

Skin irritation : This information is not available.

Eye irritation : Mixture causes serious eye irritation.

Sensitisation : Mixture may cause an allergic skin reaction.

Germ cell mutagenicity : This information is not available.

Specific target organ toxicity - single exposure This information is not available.

Specific target organ toxicity - repeated exposure This information is not available.

12. Ecological information

Ecotoxicity	This product does not contain ingredients which are classified in the EU as dangerous for the environment.
Mobility	Completely soluble in water
Persistence and Biodegradability	Its main ingredients will either dissolve rapidly and dissociate in water or are readily/inherently biodegradable.

Bioaccumulation Potential	Bioaccumulation of the components in this product is insignificant. Other Adverse Effects No environmental problems are expected when the product is used / handled correctly.

After skin contact: irritative response if not handled appropriately. After eye contact: corneal lesions may occur under certain circumstances.
After swallowing: damage to the affected mucous membranes possible.
The following applies to aromatic amines in general: systemic effect: methaemoglobinaemia with headache, cardiac dysrhythmia, drop in blood pressure, dyspnoea, and spasms, principal symptom: cyanosis (blue discolouration of the blood).

Other dangerous properties can not be excluded.
Handle in accordance with good industrial hygiene and safety practice.

Components

sulphuric acid
Germ cell mutagenicity

Genotoxicity in vitro Ames test
Salmonella typhimurium Result: negative (HSDB)

4-dimethylaminobenzaldehyde Acute oral toxicity

LD50 Rat: > 2,000 mg/kg OECD Test Guideline 423

Skin irritation
In vitro study
Result: negative
OECD Test Guideline 439

Eye irritation
In vitro study
Result: Eye irritation OECD Test Guideline 492

In vitro study
Result: non-corrosive OECD Test Guideline 437

Catalogue No. Product name

Carcinogenicity

This information is not available.

Reproductive toxicity
This information is not available.

Teratogenicity
This information is not available.

13. Disposal considerations

Classification	This material and/or its container must be disposed of as hazardous waste EU Waste class
Disposal considerations	Do not discharge into drains or the environment, dispose to an authorised waste collection point Disposal should be in accordance with local, state or national legislation

Ecological information Mixture

Toxicity : No information available.

Persistence and degradability : No information available.

Bioaccumulative potential : No information available.

Mobility in soil : No information available.

Results of PBT and vPvB assessment : PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

Other adverse effects : Discharge into the environment must be avoided.

Components

sulphuric acid Toxicity to fish

static test LC50 Lepomis macrochirus (Bluegill sunfish): > 16 - 28 mg/l; 96 h Analytical monitoring: yes(ECHA)

Toxicity to daphnia and other aquatic invertebrates
static test EC50 Daphnia magna (Water flea): > 100 mg/l; 48 h Analytical monitoring: yes
OECD Test Guideline 202

Toxicity to algae
static test EC50 Desmodesmus subspicatus (green algae): > 100 mg/l; 72 h Analytical monitoring: yes
OECD Test Guideline 201

Toxicity to fish (Chronic toxicity)
flow-through test NOEC Cyprinodon sp. (minnow): 0.025 mg/l; 65 d

Analytical monitoring: yes(ECHA)

MARINE POLUTANT : NO

14. Transport information

- Not classified as hazardous for transport

15. Regulatory information

Risk Phrases	Irritating to eyes (R36)
Safety Phrases Irritant	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice (S26) Wear suitable gloves and eye/face protection (S37/39)

16. Other information

Text of R and S phrase codes used in this safety data sheet:- R34: Causes burns; R36: Irritating to eyes; R37: Irritating to the respiratory system; R41: Risk of serious damage to eyes.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios.

For detailed advice on Personal Protective Equipment, refer to the following EU CEN Standards: EN 166 Personal eye-protection
EN 340 Protective clothing
EN 374 Protective gloves against chemicals and micro-organisms

EN 13832 Footwear protecting against chemicals EN 133 Respiratory protective devices

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.

After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

irritant effects, Allergic reactions, CNS disorders
The following applies to aromatic amines in general: systemic effect: methaemoglobinaemia with headache, cardiac dysrhythmia, drop in blood pressure, dyspnoea, and spasms, principal symptom: cyanosis (blue discolouration of the blood).

4.3 Indication of any immediate medical attention and special treatment needed

No information available.