Material Safety Data Sheet

Antioxidant Liquid For Gasoline (RXSOL-81-8164-210)

1. Product and Company Identifaction

Product Name	Antioxidant Liquid (For Gasoline)
Product Type	RXSOL-81-8164-210

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

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

Phone	+91 22 27815540 / 41 / 42
Fax	+91 22 2781 1318 :::AOH :0091 9821214367
Email	mail@rxmarine.com

2. Composition / informationon ingredients

The product is a combination of Aromatic Diamines and sterically hindered phenols type antioxidant, which acts as high performance antioxidant, and prevents gum formation in gasoline.

Sr.No	INGREDIENT	CAS NO	WT %
01	N,N'-di-sec-butyl-p- Phylenediamine	101-96-2	45- 54
02	Mixed Tert-Butyl phenols	60083-44-5	27- 30
03	Proprietory Blend of Accelerator	----	26-28

3. Hazards Identification

Emergency Overview :
May be corrosive to skin and eyes. May be harmful if ingested. May cause sensitization by skin contact.Repeated or prolonged exposure may irritate the respiratory system. This product can burn and give off toxic vapors in a fire.

Potential Health Effects :
Primary Routes of Exposure :
Contact with skin, eyes and product vapor nhalation. Product ingestion is unlikely to occur if proper safety/hygiene procedures re followed.

Skin Contact :
May cause skin burns. Contains a component which is a known or uspected skin sensitizer.

Eye Contact :
May be corrosive to the eye.

Ingestion :
May be harmful if swallowed.

Inhalation :
Inhalation of product vapors or mist may cause irritation of the espiratory system.

Target Organ :
This product may be corrosive to any tissue; this includes the skin,eyes and mucous membranes.

Carcinogenicity Classification:
International Agency for Research on Cancer (IARC)
Neither the product nor the components are classified.

U. S. National Toxicology Program (NTP)
Neither the product nor the components are classified.

U. S. Occupational Safety and Health Administration (OSHA)
Neither the product nor the components are classified or regulated.

American Conference of Governmental Industrial Hygienists (ACGIH):
Neither the product nor the components are classified.

4. First Aid Measures

Skin Contact :
REMOVE FROM SKIN EMERGENCY. Take off all contaminated clothing immediately. Remove adhering matter immediately. Use waterless hand cleaner. Then wash with lots of water and soap. Consult a physician.

Eye contact :
Flush immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult a physician.

After Ingestion :
Do not induce vomiting. Call a physician immediately.

After Inhalation :
Remove affected person to fresh air. If symptoms persists, call a physician.

Note to physician :
In the unlikely event that large quantities of the product are ingested, gastric lavage should be considered.

Aspiration into the lungs may cause chemical pneumonia. An activated charcoal slurry taken within 30 minutes of product ingestion may reduce the toxicity of the chemical. A 5:1 ratio of charcoal to material ingested is the recommended dosage. Activated charcoal should not be considered as an antidote; normal symptomatic treatment is recommended with or without the administration of activated charcoal. Symptomatic treatment is advised.

5. Fire-fighting Measures

Suitable Extinguishing Media :	Water spray, foam, dry chemical or CO2
Unsuitable Extinguishing Media :	Do not use a solid water stream as it may scatter and spread fire.
Fire and Explosion Hazards :	Cool containers / tanks with water spray. In the event of fire and/or explosion do not breath fumes. Heating/burning can release
hazardous gases:	Carbon oxides (CO, CO2), nitrogen oxides (NOx)
Special protective equipment :	Wear protective clothing. In case of respirable dust and/or fumes, use self-contained breathing apparatus.
Flash Point :	235 0F (113 0C)

6. Accidental Release Measures

Personal protection :
See Section 8.

Environmental precautions :
Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration

Clean-up :
Remove all sources of ignition. Stop leak at source. Keep people away from and upwind of spill/leak. Contain material using temporary measures such as sand bags, booms or adsorbent socks. Soak up with inert absorbent material (e.g. sand, silica gel,universal binder, sawdust). Never use spilled product.

Spilled product should be disposed of in accordance with all applicable government regulations.

Small amounts :
Soak up with inert absorbent material and dispose of in accordance with applicable regulations.

7. Handling and Storage

Handling :
Use only in well-ventilated areas.Wear personal protective equipment. In case of insufficient ventilation, wear suitable respiratory equipment. Keep away from open flames, hot surfaces and sources of ignition.

Storage :
Keep containers tightly closed in a cool, well-ventilated place. Store in original container. Keep away from heat and sources of ignition.

8. Exposure controls and personal protection

Engineering measures :	Ensure adequate ventilation, especially in confined areas.
Personal protection equipment :	Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice.
Eye protection :	Tightly fitting safety goggles. Face-shield.
Hand protection :	Solvent-resistant gloves.
Skin and body protection :	Solvent-resistant apron and boots. Protective suit. Remove and wash contaminated clothing and gloves,including the inside, before reuse.
Respiratory protection :	In case of insufficient ventilation wear suitable respiratory equipment with filter classification : N-95 or if oil/liquid aerosols are present P-95 (42 CFR 84). Gas adsorbent cartridge type: Organic fumes.

9. Physical and chemical properties

These data do not represent technical or sales specifications.

Form	Liquid
Flash Point	Min 141 °C
Pour Point °C	Below -18
Color	Clear Red
Viscosity @ 40°C cSt	8 - 14
Sp. Gr. @ 20 °C	0.890 – 0.950

10. Stability and reactivity

Stability :
Stable at normal conditions. Decomposes on heating.

Hazardous Decomposition Products :
No decomposition if used as directed. Under conditions giving incomplete combustion, hazardous gases produced may consist of carbon oxides (CO, CO2) and nitrogen oxides (NOx).

Conditions/materials to avoid :
Keep away from ignition sources. Incompatible with oxidizing and reducing agents. May corrode base metals.

11. Toxicological information

LD50 oral rat : NDA
LD50 dermal rat : NDA
LD50 dermal rabbit : NDA
LC50 inhalation rat : NDA

Chronic toxicity :
Classification of Ingredients
EEC carc.cat. : Not listed EEC
muta.cat. : Not listed
EEC repr.cat. : Not listed

IARC classification :
Not listed

Routes of exposure :
Exposure may occur via inhalation, contact with skin and eyes.

Irritation :
Skin (rabbit) : Severe skin irritation. Eye (rabbit): Severe eye irritation.

Additional product information :
Avoid repeated and prolonged exposure.

Additional component information :
For the N,N-di-sec-butyl-phenylenediamine component:
LD50 Oral : 200-500 mg/kg
LD50 Dermal = > 2000 mg/kg
Corrosive to skin.
Corrosive to eye.
Not mutagenic in Ames Test.
For the Mixture of Butylphenols component.
LD50 Oral = 3400 – 5000 mg/kg.
Moderate skin irritant.

12. Ecological information

Mobility : NDA Biodegradation : NDA

Bioaccumulation : NDA Aquatic toxicity :

NDA Further toxicity : NDA

13. Disposal considerations

Provisions relating to waste:
EPA – Resource Conservation and Recovery Act (RCRA) Hazardous and Solid Waste Management Regulations.

Disposal Information:
Dispose of in compliance with all applicable regulations. Can be incinerated, when in compliance with the localregulations. Empty remaining contents. Do not reuse empty containers.This product (in its fresh unused state) is not listed by generic name or trademark name in the U.S. EPA's RCRA regulations and does not possess any of the four identifying chrematistics of hazardous waste (ignitibility, corrosivity, reactivity or toxicity).

14. Transport information

Proper shipping name :
Corrosive Liquid, basic, organic, N. O. S. (Contains N,N-disec-butyl-p-phenylenediamine)

UN NO :
3267

Packing Group :
III

U. S. DOT :
Regulated

DOT Shipping name :
Corrosive Liquid, basic, organic, N. O. S. (Contains N,N-di-secbutyl-p-phenylenediamine)

Hazard Classification :
Class 8
IMO : Class 8 EmS : No. 8-15 MFAG : Table No. 760 Marine Pollutant : No

ICAO – IATA :
Class 8
Instruction "passenger" : 818/Y818 Instruction "cargo" : 820

15. Regulatory information

Toxic substances Control Act (TSCA):
All the ingredients of this mixture are registered on the TSCA Chemical Substance Inventory.

CERCLA (Comprehensive Environmental Response, Compensation and Liability Act) Reportable Quantity):
The following component(s) of this product is/are subject to release reporting under 40 CFR 302 when release exceeds the Reportable Quantity (RQ): None.

SARA Title III (Superfund Amendments and Reauthorization Act of 1986) Section 302 (Extremely Hazardous Substances):
The following component(s) of this product is/are subject to the emergency planning provisions of 40 CFR 355 when there are amounts equal to or greater than the Threshold Planning Quantity (TPQ): None.

Section 313 (Toxic Chemicals):
The following component(s) have been specified as Toxic Chemicals under SARA Section 313 and may be subject to the Toxic Release inventory (TRI) reporting requirements under 40 CFR 372 : None. The following components are listed in U. S. State Regulations:

State Reg Reference :
California – Proposition 65 : None.
Massachusetts Right-To-Known : N,N-Di-sec-butyl-p-phenylenediamine
New Jersey Right-To-Know : None.
Pennsylvania Right-To-Know : 1,4-Benzenedlamine, N,N-bis(1-methylpropyl)

Canada:
Canadian Hazardous Products Act :
This product is classified as a corrosive material – Class E
This product is classified as a material causing other Toxic Effects, Chronic Toxic Effects – Class D, Division 2 Subdivision B.

The above classification(s) is/are in accordance with the regulations pursuant to the Federal Hazardous Products Act (e.g. WHMIS)

Canadian Environmental Protection Act. :
All the ingredients of this mixture are notified to CEPA and on the DSL (Domestic Substances List)

European Union (EU)
European Inventory of Existing Commercial Chemical Substances :
All components of this product are included in EINECS/ELINCS.
Council of European Communities Directive on Classification, Packing and Labeling of Dangerous Substance/Preparation (67/548/EEC and 88/379/EEC)
The following label information applies.

Symbols :	C – Corrosive
Contains :	N,N-di-sec-butyl-p-phenylenediamine
Risk Phrases :	R22 Harmful if swallowed. R35 Causes severe burns. R43 May cause sensitization by skin contact.
Safety Phrases :	S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S28 After contact with skin, wash with plenty of waterless handcleaner. S36/37/39 Wear suitable protective clothing, gloves, and eye/face protection.

16. Other information

The information provided about the product on this Safety Data Sheet has been compiled from knowledge of the individual constituents The data given here is based on current knowledge and experience. This Safety Data Sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product's properties The data given here only applies when product used for proper application(s). The product is not sold as suitable for other applications usage in such may cause risks not mentioned in this sheet. Do not use for other application(s) without seeking advice from manufacturer.

DISCLAIMER OF LIABILITY :The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.