

1. Product and Company Identification

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Product Name AdBlue Rx
Part Number RXSOL-70-7020-220

Company Details:

RX MARINE INTERNATIONAL
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2. Composition / Information on ingredients

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Camical Name	CAS	EC number	Weight %
Urea	57-13-6	200-315-5	30-40
Demineralized water	7732-18-5	231-791-2	>60

3. Hazards Identification

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Hazardous to the aquatic environment, long-term (Chronic) - Category Chronic 3

Signal Word	Non-Dangerous Goods
Hazard Statements	Not Applicable
Precautionary statements - response	Keep out of reach of children. Avoid contact with skin and eyes and avoid breathing dust/vapour or spray mist. Wear overalls, impervious gloves and chemical goggles. Use only in well ventilated areas. Store away from other chemicals. Keep containers closed when not in use Harmful if swallowed. Give plenty of water to drink and seek medical advice. If in eye, flush gently with running water for 15 minutes. If inhaled, remove from exposure area. If irritation persists, seek medical attention. If skin or hair contact occurs, remove contaminated clothing and flush affected areas with running water. If irritation persists, seek medical attention water. If irritation persists, seek medical attention
Supplemental Hazard Statements	None

4. First Aid Measures

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Description of first-aid measures

General advice	Not expected to be a health hazard when used under normal conditions
Eye Contact	Flush eye with copious quantities of water. If persistent irritation occurs, obtain medical attention.
Skin Contact	Remove contaminated clothing Flush exposed area with water and follow by washing with soap if available.
Inhalation:	No treatment necessary under normal conditions of use. If symptoms persist, obtain medical advice.

Ingestion:	No treatment necessary unless large quantities are swallowed. If symptoms persist, obtain medical advice.
Notes to Physician	No data available.
If swallowed	No data available.
Indication of any immediate medical attention and special treatment needed	No data available.

5. Fire-fighting Measures

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Extinguishing media	The product contains a substantial proportion of water, therefore there are no restriction on the type of extinguisher that may be used. Choice of extinguisher media should take into account surrounding areas. Though the material is non-combustive, evaporation of water from the mixture, caused by the heat of nearby fire, may produce floating layers of combustible substances. In such an event consider: Foam Dry, chemical powder, Carbon dioxide.
Flammability	NA
Flash Point	NA.
Suitable extinguishing media	NA
Unsuitable extinguishing media	NA
Special hazards arising from the substance or mixture	When heated, releases ammonia. When heated to decomposition, releases toxic fumes of nitrogen oxides, ammonia, cyanuric acid.
Further information	NA
Hazardous combustion products	NA
Advice for firefighters	Clear fire area of non-emergency personal property. Alert fire brigade: define location, nature of hazard. Wear personal safety equipment: breathing apparatus, gloves. Use firefighting procedures suitable for the surrounding environment. Do not approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire.

6. Accidental Release Measures

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Personal precautions, protective equipment and emergency procedures	See 8. Exposure Controls/Personal Protection
Spillage	NA
Personal Protection	NA
Environmental Precaution	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Methods and materials for containment and cleaning	Use appropriate containment to avoid environmental contamination. Use absorbent material such as sand, earth, vermiculite. Alert fire brigade: define location, nature of hazard. Use absorbent material such as sand, earth, vermiculite. Prevent entry to sewers, water courses, basements or confined areas.

7. Handling and Storage

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Precautions for safe handling	Use in well ventilated area. Properly dispose of contaminated rags or cleaning materials. Use personal safety equipment, including safety footwear when drums are being handled. Store away from incompatible materials.
Conditions for safe storage, including any incompatibilities	Check all containers are clearly labelled and free from leaks. Polyethylene (PE). Polypropylene (PP)
Incompatible storage	Storage/mixing with oxidizing agents. Carbon steels, zinc coated carbon steels, mild iron. Non-ferrous metals & alloys: copper, copper alloys, zinc,

lead Solders containing lead, silver zinc, copper Aluminium, aluminium alloys. Magnesium, magnesium alloys Plastics or metals coated with nickel.

Storage conditions

Tightly closed. Dry

8. Exposure controls and personal protection

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Occupational Exposure limit values

No data available

Biological limit values

No data available

Exposure controls

remove a hazard or place a barrier between the worker & the hazard. The basic types of engineering controls are,

Engineering Control

process controls: change the way a job activity or process is done to reduce the risk enclosure and/or isolation of emission source: keep a selected hazard physically away from the worker and ventilation that appropriately removes or adds air to the work environment

Eye/face protection

Safety glasses with side shield

Body Protection

Overalls, PVC apron

Overalls

☑ PVC apron

Skin protection

See Hands/feet protection below

Respiratory protection

Particulate. (AS/NZS 1716 & 1715, EN 143:000 & 149:001, ASNI Z88 or national equivalent)

Other Protection Measure

Barrier cream, skin cleansing cream, eye wash unit.

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains

Thermal hazards

Not available



Gloves Suit

9. Physical and chemical properties

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Physical state

Liquid

Colour

Colourless

Odour

Slight ammonia

Odor Threshold

No data available

pH

Not determined

Melting Point

-11.5

Initial boiling point and boiling range

100

Boiling Point

100

Flash Point

Not applicable

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	1.09 g/cm ³
Vapour Density	No Data Available
Specific Gravity	No data available
Upper/lower flammability or explosive limits	Upper explosion limit: 10 %(V) Lower explosion limit: 1.2 %(V)
Vapour density	NA
Vapour pressure	NA
Partition coefficient	NA
Auto-ignition emperature	NA
Explosive properties	None
Solubility	DMSO (Slightly), Water (Slightly)
Ignition temperature	No information available.
Particle characteristics	No data available

10. Stability and reactivity

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Reactivity	See 7. Handling and Storage
Stability	Product is considered stable . Hazardous polymerization will not occur.
Possibility of hazardous reactions	See 7. Handling and Storage
Conditions to avoid	See 7. Handling and Storage
Incompatible materials	See 7. Handling and Storage
Hazardous Polymerization	See 7. Handling and Storage

11. Toxicological information

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Acute toxicity	NA
Skin corrosion/irritation	exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin
Serious eye damage/eye irritation	inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.
Respiratory or skin sensitization	Did not cause sensitisation on laboratory animals.(Pentan-1-ol)
Serious eye damage/eye irritation	Not 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	Ames test(Pentan-1-ol) Salmonella typhimurium Result: negative
Reproductive toxicity	No data available
Specific target organ toxicity - single exposure	No data available
Special Remarks on other Toxi Effects on Humans:	No data available
Additional Information	No data available
Assessment	No data available
Endocrine disrupting properties	No data available

12. Ecological information

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Ingredient	Endpoint	Test duration(hr)	species	value	source
Uria	LC50	96	fish	5mg/L	4
Uria	EC50	48	Crustacea	3910mg/L	4
Uria	EC50	96	Algae or other aquatic plants	42184.758mg/L	3
Uria	BCF	24	Algae or other aquatic plants	0.05mg/L	4
Uria	EC50	384	Crustacea	894.861mg/L	3
Uria	NOEC	96	Crustacea	100mg/L	4

13. Disposal considerations

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Contaminated packaging

Disposal to sewer may be subject to local laws & regulations and these should be considered first. Recycle wherever possible. Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified. Dispose of by: burial in a specifically licensed landfill (chemical and/or pharmaceutical waste), or incineration in licensed apparatus (after admixture with suitable combustible material).decontaminate empty containers.

Waste treatment Method

Legislation addressing waste disposal requirement may differ by country, state or territory. Each user must refer to laws operating in their area. This product may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. Do not allow wash water from cleaning or process equipment to enter storm-water drains. It may be necessary to collect all wash water for treatment before disposal.

14. Transport information

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Marine Pollutant	NO
HAZCHEM	Not Applicable
Land transport (ADG)	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
Air transport (ICAO-IATA / DGR)	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
Sea transport (IMDG-Code / GGVSee)	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

15. Regulatory information

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Safety, health and environmental regulations / legislation specific for the substance or mixture

Non-Hazardous Chemical. Non-Dangerous Goods.

According to the WHS Regulations and the ADG Code

UREA(57-13-6) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Inventory of Chemical Substances (AICS)

16. Other information

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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 we assume 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 we 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.

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