Material Safety Data Sheet

YTTRIUM NITRATE AR (RXSOL-60-6605-831)

1. Product and Company Identifaction

Product Name	YTTRIUM NITRATE AR
Part Number	RXSOL-60-6605-831

Company Details:

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

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

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Email	mail@rxmarine.com
website	**www.rxmarine.com**

2. Composition / informationon ingredients

Chemical Name	CAS	EC number	Weight
Yttrium nitrate	57584-28-8	N/A	0-100 wt%

3. Hazards Identification

Signal Word	Danger
Hazard Statements	H272: May intensify fire; oxidizer H315 Causes skin irritation H319 Causes serious eye irritation H335: May cause respiratory irritation
P280 Wear protective gloves.P305 + P351 + P338	Wear eye protection/ face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Precautionary statements - response	P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking P220: Keep/Store away from clothing/…/combustible materials P221: Take any precaution to avoid mixing with combustibles P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing P405: Store locked up P501: Dispose of contents/container in accordance with local/regional/national/international regulations
Response	None
Disposal	P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Prevention	P273 Avoid release to the environment.
Additional Names	Yttrium nitrate pentahydrate
Supplemental Hazard Statements	None
Other hazards	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

4. First Aid Measures

General advice	Seek medical attention if symptoms persist.

If inhaled	NA.
Eye Contact	Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Continue rinsing
Swallowed	NA
Skin Contact	Wash affected area with mild soap and water. Remove any contaminated clothing.
Inhalation	Remove victim to fresh air. Supply oxygen if breathing is difficult.Give one to two glasses of water and induce vomiting. Never induce vomiting or give anything by mouth to an unconscious person.
Ingestion	Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor or Poison Control Center immediately.
Notes to Physician	Treat symptomatically
If swallowed	After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.
Most important symptoms and effects, both acute and delaye	No data available
Indication of any immediate medical attention and special treatment needed	No data available

5. Fire-fighting Measures

Flammability	Flammable.
Flash Point	NA
Suitable extinguishing media	Do not use water for metal fires – use CO2, sand, extinguishing powder.
Unsuitable extinguishing media	For this substance/mixture no limitations of extinguishing agents are given
Special hazards arising from the substance or mixture	Use full-face, self-contained breathing apparatus with full protective clothing to prevent contact with skin and eyes. See section 10 for decomposition products
Further information	NA
Hazardous combustion products	NA
Advice for firefighters	NA
Protective Equipment	NA
Specific Hazards Arising from the Chemical	NA

6. Accidental Release Measures

If Material Is Released/Spilled	Wear appropriate respiratory and protective equipment specified in special protection information. Isolate spill area and provide ventilation. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for disposal. Take care not to raise dust.
Spillage	NA
Personal Protection	NA
Enviromental Precaution	Isolate runoff to prevent environmental pollution
Methods and materials for containment and cleaning	NA

7. Handling and Storage

Handling Conditions	Handle under dry protective gas. Wash thoroughly after handling.
Storage Conditions	Store in a cool dry place in a tightly sealed container. Store under dry inert gas. Store apart from materials and conditions listed in section 10.
Work/Hygienic Maintenance	Do not use tobacco or food in work area. Wash thoroughly before eating and smoking. Do not blow dust off clothing or skin with compressed air.
Ventilation	Provide sufficient ventilation to maintain concentration at or below threshold limit.
Conditions for safe storage, including any incompatibilities	NA
Storage conditions	NA

Storage conditions	NA
Storage class	NA
Specific end use(s)	NA
Handling	NA
Advice on general occupational hygiene	NA

8. Exposure controls and personal protection

Occupational Exposure limit values	No data available
Biological limit values	No data available
Special Equipment	None
Respiratory Protection:	Use a respirator with type P100 (USA) or P3 (EN143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards
Eye/face protection	Safety glasses or goggles
Body Protection	Protective work clothing. Wear close-toed shoes and long sleeves/pants.
Skin protection	Wear fire/flame resistant and impervious clothing. Handle with gloves. Gloves must be inspected prior to use. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.
Respiratory protection	NA
Other Protection Measure	NA
Control of environmental exposure	NA
Thermal hazards	No data available



Gloves



Suit

9. Physical and chemical properties

Physical state	Off-White
Colour	Powder
Odour	Odorless
Water Solubility:	1347 g/l
pH	Not Applicable
Melting Point	>300°C
Boiling Point	NA
Flash Point	No data available
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	No data available
Vapour Density	No Data Available
Specific Gravity	No data available
Partition coefficient	No data available
Explosive properties	None

Solubility	DMSO (Slightly), Water (Slightly)
Ignition temperature	No information available.
Particle characteristics	No data available

10. Stability and reactivity

Reactivity	No data available
Stability	Stable under recommended storage conditions
Possibility of hazardous reactions	No data available
Conditions to avoid	No data available
Incompatible materials	Water/moisture
Hazardous Polymerization	Metal oxide fume, Nitrogen oxides
Reacts With	Flammable substances, Reducing agents, Organic materials, Metal powers, Oxidizing agents

11. Toxicological information

Acute toxicity	NA
Skin corrosion/irritation	No data available
Serious eye damage/eye irritation	Causes skin irritation
Respiratory or skin sensitization	Causes serious eye damage
Serious eye damage/eye irritation	No data 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	No data available
Reproductive toxicity	No data available
Specific target organ toxicity - single exposure	No data available
Special Remarks on other Toxi Effects on Humans:	NA
Additional Information	Endocrine disrupting properties
Assessment	NA
Endocrine disrupting properties	NA

12. Ecological information

Persistence and degradability	No data available
Toxicity	Low
Bioaccumulative potential	No data available
Toxicity to fish	NA
Toxicity to daphnia and other aquatic invertebrates	NA
Toxicity to algae	NA
Eco Toxicity	Not Available
COD and BOD 5	Not Available
Products Biodegradation:	NA
Mobility in soil	No Information available
Results of PBT and vPvB assessment	NA
Endocrine disrupting properties	NA
Assessment	NA

Other adverse effects	No data available

13. Disposal considerations

Disposal methods	Dispose of in accordance with local, state, national, and international regulations
Contaminated packaging	NA
Waste treatment Method	NA

14. Transport information

UN number	UN1477
UN proper shipping name	ADR/RID: Not dangerous goods. (For reference only, please check.) IMDG: Not dangerous goods. (For reference only, please check.) IATA: Not dangerous goods. (For reference only, please check.)
Transport hazard class(es)	ADR/RID: Not dangerous goods. (For reference only, please check.) IMDG: Not dangerous goods. (For reference only, please check.) IATA: Not dangerous goods. (For reference only, please check.)
Packaging group	ADR/RID: Not dangerous goods. (For reference only, please check.) IMDG: Not dangerous goods. (For reference only, please check.) IATA: Not dangerous goods. (For reference only, please check.)
Hazardous	Hazardous as powder only.
Hazard Class	Oxidizing substances
Packing Group	III

15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture	NA
Safety, health and environmental regulations specific for the product in question	NA
National legislation	NA
DSCL (EEC)	NA
Other regulations	NA
Chemical Safety Assessment	NA

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.