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MATERIAL SAFETY DATA SHEET

Version :01

PRODUCT NAME: AMMONIUM THIOCYANATE

CAS Number: 1762-95-4

1. IDENTIFICATION:		
Product Code	90123, 90337	
Company Name	ADVENT CHEMBIO PRIVATE LIMITED	
Address	W-279, MIDC, TTC INDUSTRIAL AREA, THANE-BELAPUR ROAD, RABALE, NAVI MUMBAI - 400 701.	
E-mail	sales@adventchembio.com	
WEBSITE	www.adventchembio.com	
Company Phone Number	022-27690837	

2. HAZARDS IDENTIFICATION:

Hazard classification		
Health hazards		
Acute toxicity, Oral	Category 4	
Acute toxicity, Dermal	Category 4	
Acute toxicity (Inhalation - dust and mist)	Category 4	
Eye irritation	Category 1	
Environmental hazards Chronic hazards to the aquatic environment	Category 3	
Labels elements		
Hazard symbol		
Signal word	Warning.	
Hazard statement	Harmful if swallowed. Harmful if inhaled. Harmful in contact with skin. Causes serious eye damage. Harmful to aquatic life with long lasting effects.	
Precautionary statement		
Prevention	Obtain special instructions before use. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Do not handle until all safety precautions have been read and understood. Wear protective gloves/ protective clothing/ eye protection/ face protection. Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking. Keep container tightly closed. Ground/ bond container and receiving equipment. Use explosion-proof electrical/ ventilating/ lighting/ equipment.	r



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	Use only non-sparking tools. Take precautionary measures against static discharge.
Response	: IF exposed or concerned: Get medical advice/ attention. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
Storage	: Store at ambient temperature in a dry and well ventilated place. Keep container tightly closed. Containers which are opened must be carefully resealed.
Disposal	: 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.
Other hazards which do not result in GHS classification	: None.

3. COMPOSITION/ INFORMATION ON INGRADIENTS:			
Ingredient	CAS Number	Percent	Hazardous
Ammonium Thiocyanate	1762-95-4	NLT 98.0%	No

4. FIRST AID MEASURES:

General information	: Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance.
Ingestion	 Call a physician or poison control center immediately. Rinse mouth. Do NOT induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Move to fresh air. Call a physician or poison control center immediately. If breathing stops,
Inhalation	: provide artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms persist.
Skin contact	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.
Eye contact	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.
Most important symptoms/effects, acute and delayed	: Toxic in contact with skin. Irritating to eyes, respiratory system and skin.
Indication of immediate medical attention and special treatment needed	: Symptoms may be delayed. Treat symptomatically.



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5. FIRE FIGHTING MEASURES:

General information Suitable (and unsuitable) extinguishing media				
Suitable extinguishing media	: Water spray, foam, dry powder or carbon dioxide.			
Unsuitable extinguishing media	: Avoid water in straight hose stream; will scatter and spread fire.			
Specific hazards arising from the chemical	Fire may produce irritating, corrosive and/or toxic gases.			
Special protective equipment	t and precautions for firefighters			
Special firefighting procedures Special protective equipment for fire-fighters	Use water spray to keep fire-exposed containers cool. Fight fire from a protected location. Move containers from fire area if you can do so without risk. Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.			

6. ACCIDENTAL RELEASE MEASURES:

Personal precautions, protective equipment and emergency procedures	ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area Avoid breathing mists or vapors. Keep upwind. Ventilate closed spaces before enterin them. Do not touch damaged containers or spilled material unless wearing appropriat protective clothing. Keep unauthorized personnel away.	, Ig
Methods and material for containment and cleaning up	Eliminate all ignition sources if safe to do so. Use only non-sparking tools. Tak precautionary measures against static discharges. Stop leak if possible without any ris Absorb spill with vermiculite or other inert material, then place in a container for chemic waste. Clean surface thoroughly to remove residual contamination. Dike far ahead of large spill for later recovery and disposal.	k. al
Notification Procedures	Prevent entry into waterways, sewer, basements or confined areas. Inform authorities large amounts are involved.	if
Environmental precautions	Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to d so. Avoid discharge into drains, water courses or onto the ground.	0

7. HANDLING AND STORAGE:

Precautions for safe handling	 Do not handle until all safety precautions have been read and understood. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Take precautionary measures against static discharges. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Wear protective gloves/protective clothing/eye protection/ face protection. Avoid contact with eyes, skin, and clothing. Do not breathe mist or vapor. Use only with adequate ventilation. Wash hands thoroughly after handling.
Conditions for safe storage, including any incompatibilities	 Keep away from food, drink and animal feeding stuffs. Store at ambient temperature in a dry and well ventilated place. Keep the container tightly closed, away from heat. Containers which are opened must be carefully resealed. Ground container and transfer equipment to eliminate static electric sparks. Comply with all



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national, state, and local codes pertaining to the storage, handling, dispensing, and disposal of flammable liquids.

8. EXPOSURE CONTROLS PERSONAL PROTECTION:

Control parameters			
Occupational exposure limits		None of the components have assigned exposure limits.	
Appropriate engineering controls	:	No data available	
Individual protection measur	res,	such as personal protective equipment	
General information	:	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. An eye wash and safety shower must be available in the immediate work area. Use explosion-proof ventilation equipment.	
Eye/face protection	:	Wear safety glasses with side shields (or goggles).	
Hand protection	:	Chemical resistant gloves.	
Other	:	Wear suitable protective clothing.	
Respiratory protection	:	In case of inadequate ventilation use suitable respirator.	
Hygiene measures	:	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Provide eyewash station and safety shower. Avoid contact with eyes, skin, and clothing.	



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9. PHYSICAL AND CHEMICAL PROPERTIES:		
Appearance	:	Crystalline solid
Odor	:	Odourless
Solubility	:	Miscible in water.
Formula	:	NH₄SCN.
Molecular Weight	:	76.12 g/mol
рН	:	5.5, 5% aqueous solution
% Volatiles by volume @ 21C (70F)	:	100
Boiling Point	:	No data available
Melting Point	:	150°C
Flash Point	:	No data available
Vapor Density (Air=1)	:	0.6
Vapor Pressure (mm Hg)	:	No data available
Evaporation Rate (BuAc=1)	:	No data available
10. STABILITY AND REACTIV	ITY:	
Reactivity	:	Contact with a strong oxidizer or acid may liberate hydrogen cyanide gas.
Chemical stability	:	Material is stable under ambient conditions

Possibility of hazardous reactions	:	Hazardous polymerization does not occur.
Conditions to avoid	:	Heat, sparks, flames. Sunlight.
Incompatible materials	:	Strong oxidizing agents. Strong acids.
Hazardous decomposition products	:	In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION:

Information on likely routes of exposure

Ingestion	Harmful if swallowed.				
Inhalation	May cause irritation to the mucous membranes and upper respiratory tract. May cause central nervous system effects				
Skin contact	Causes skin irritation				
Eye contact	Causes serious eye irritation.				
Information on toxicological effects					



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Acute toxicity (list all possible routes of exposure)							
Oral Product	:	LD 50 (Rat): 3,000 mg/kg .					
Dermal Product	:	LD 50 (Rat): > 2,000 mg/kg					
Inhalation Product	:	No data available.					
Repeated dose toxicity Product	:	No data available.					
Skin corrosion/irritation Product	:	Prolonged or repeated skin contact may cause drying, cracking, or irritation					
Serious eye damage/eye irritation Product	:	Irritating to eyes.					
Respiratory or skin sensitization Product	:	Not a skin sensitizer.					
Carcinogenicity Product	:	This substance has no evidence of carcinogenic properties					
IARC Monographs on the Evaluation of Carcinogenic Risks to Humans	:	No carcinogenic components identified.					
US. National Toxicology Program (NTP) Report on Carcinogens	:	No carcinogenic components identified.					
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050 Germ cell mutagenicity		No carcinogenic components identified.					
In vitro Product	:	No mutagenic components identified.					
Reproductive toxicity Product	:	No components toxic to reproduction.					
Specific target organ toxicity - single exposure Product	:	No data available					
Specific target organ toxicity - repeated exposure Product	:	No data available					
Aspiration hazard Product	:	Not classified.					
Other effects	:	No data available.					

12. ECOLOGICAL INFORMATION:

Ecotoxicity Acute hazards to the aquatic environment

Fish Product

: No data available.



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Aquatic invertebrates Product	:	No data a								
Chronic hazards to the aqua	atic e	nvironmer	π							
Fish Product	:	No data a	No data available.							
Aquatic invertebrates Product	:	No data available.								
Toxicity to Aquatic Plants Product:	:	No data available.								
Persistence and degradabili	ty									
Biodegradation Product	:	Expected	Expected to be readily biodegradable.							
BOD/COD ratio Product	:	No data a	No data available.							
Bioaccumulative potential										
Bioconcentration factor (BCF) Product										
Partition coefficient n- octanol / water (log Kow) : No data available. Product										
Mobility in soil	: The product is partly soluble in water. May spread in the aquatic environment.									
Other adverse effects	:	Harmful to aquatic life with long lasting effects.								
13. DISPOSAL CONSIDERAT	ION									
Disposal instructions	: Discharge, treatment, or disposal may be subject to national, state, or local laws. Disposal recommendations are based on uncontaminated material.									
Contaminated packaging	:	Since emptied containers retain product residue, follow label warnings even after container is emptied.								
14. TRANSPORT INFORMAT	ΓΙΟΝ	:								
DOT IMDG	U	N No.	UN proper shipping name	Hazard Class(es) Not Regulated Not Regulated	Packaging group	Marine Pollutant				
IATA				Not Regulated						



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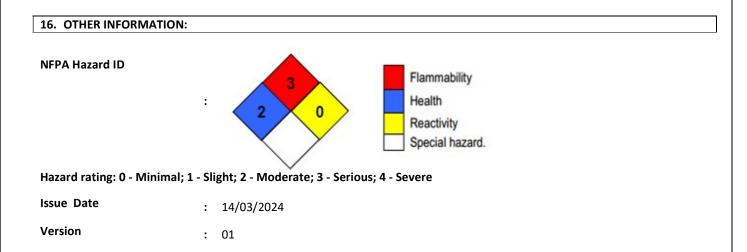
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15. REGULATORY INFORMATION:

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006. Safety, health and environmental regulations/legislation specific for the substance or mixture No Data Available.



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