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Product Name: Potassium thicyanate **CAS No.:** 333-20-0 Version: 0

1. Identification

Product Code 90225, 90519

Advent Chembio Private Limited **Company Name**

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ROAD, RABALE, NAVI MUMBAI - 400 701.

E-mail info@adventchembio.com

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2. Composition/Information on Ingredients

Ingredient CAS No Percent POTASSIUM THIOCYANATE 333-20-0 90-100%

3. Hazards Identification

Hazard classification

Health hazards

Acute toxicity (Oral) : Category 4 Acute toxicity (Dermal) : Category 4 Acute toxicity (Inhalation - dust and : Category 4

mist)

Serious eye damage/eye irritation

Environmental hazards

Chronic hazards to the aquatic

environment Labels elements **Hazard symbol**

: Category 2

: Category 3



Signal word : Warning.

Hazard statement Harmful if swallowed.

Harmful in contact with skin.

Harmful if inhaled.

Causes serious eye irritation.

Harmful to aquatic life with long lasting effects.

Precautionary statement

Wash thoroughly after handling. Do not eat, drink or smoke when **Prevention**

using this product. Wear protective gloves/protective clothing/eye

protection/face protection. Avoid breathing

dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-





Response

MATERIAL SAFETY DATA SHEET

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ventilated area. Avoid release to the environment.

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor/physician if you feel unwell. Take off contaminated clothing and wash it before reuse. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical

advice/attention.

: Store in a well-ventilated place. Keep container tightly closed. Store **Storage:**

locked up.

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.

4. First Aid Measures

Get medical advice/attention if you feel unwell. If medical advice is **General information**

needed, have product container or label at hand. Show this safety

data sheet to the doctor in attendance.

Rinse mouth. Call a physician or poison control center immediately. **Ingestion**

> Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't

get into the lungs.

Move to fresh air. Apply artificial respiration if victim is not **Inhalation**

breathing If breathing is difficult, give oxygen. Get medical

attention.

Immediately flush with plenty of water for at least 15 minutes while Skin contact

> removing contaminated clothing and shoes. Call a physician or poison control center immediately. Wash contaminated clothing before reuse. Destroy or thoroughly clean contaminated shoes.

Immediately flush with plenty of water for at least 15 minutes. If Eye contact

easy to do, remove contact lenses. Get medical attention

immediately. Harmful if inhaled. Harmful if swallowed. Causes serious eye

Most important symptoms/effects,

acute and delayed **Indication of immediate medical**

irritation.

Treat symptomatically. Symptoms may be delayed.

attention and special treatment

needed



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5. Fire fighting measures

General fire hazards : In case of fire and/or explosion do not breathe fumes.

None known.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media

Specific hazards arising from the : During fire, gases hazardous to health may be formed.

chemical

fire-fighters

Special protective equipment and precautions for firefighters

Special fire fighting procedures : Move containers from fire area if you can do so without risk. Use

water spray to keep fire-exposed containers cool. Cool containers

exposed to flames with water until well after the fire is out.

Special protective equipment for : 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

Methods and material for

containment and cleaning up

Notification Procedures

Environmental precautions

: Keep unauthorized personnel away. Use personal protective equipment. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Sweep up and place in a clearly labeled container for chemical waste. Clean surface thoroughly to remove residual contamination. Dike far ahead of larger spill for later recovery and disposal.

Prevent entry into waterways, sewer, basements or confined areas. Stop leak if you can do so without risk. Inform authorities if large

amounts are involved.

: Prevent further leakage or spillage if safe to do so. Avoid discharge

into drains, water courses or onto the ground.





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7. Handling and Storage

Precautions for safe handling: Use personal protective equipment as required. Avoid contact with

eyes, skin, and clothing. Avoid inhalation of dust. Wash thoroughly

after handling.

Conditions for safe storage, including any incompatibilities

: Keep container tightly closed. Store in a cool and well-ventilated place. Store in a dry place. Store away from incompatible materials.

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 measures, 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.

Eye/face protection : Wear safety glasses with side shields (or goggles) and a face shield.

Hand protection : Chemical resistant gloves.

Other : Wear suitable protective clothing and gloves.

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.

9. Physical and Chemical Properties

Appearance : Colorless Solid Crystals

Odor : Odorless

pH : No data available.

range

Flash Point : No data available
Vapor pressure : No data available
Vapor density : No data available
Relative density : 1.89 (20 °C)





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Very Soluble **Solubility in water Solubility (other)** No data available.

Formula CHNS.K 97.18 g/mol Molecular Weight

10. Stability and Reactivity

Reactivity No dangerous reaction known under conditions of normal use.

Stable; however, may decompose if heated. **Chemical stability** Possibility of hazardous reactions Hazardous polymerization does not occur. Contact with incompatible materials. Light. **Conditions to avoid**

Strong oxidizing agents. Halogens and halogenated compounds. **Incompatible materials** Thermal decomposition may produce oxides of nitrogen. Cyanides. **Hazardous decomposition products**

11. Toxicological Information

Information on likely routes of exposure

Harmful if swallowed. May cause irritation of the gastrointestinal **Ingestion**

Harmful if inhaled. May cause irritation to the respiratory system. **Inhalation**

Harmful in contact with skin. May cause irritation. Skin contact Eye contact Causes serious eye irritation. May irritate eyes

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

No data available. **Oral Product** No data available. **Dermal Product**

Inhalation Product No data available No data available. **Repeated dose toxicity Product** Skin corrosion/irritation Product May cause skin irritation.

Serious eye damage/eye irritation Causes serious eye irritation. May irritate eyes.

Product Respiratory or skin sensitization

Not a skin sensitizer.

Product

Carcinogenicity Product This substance has no evidence of carcinogenic properties.

IARC Monographs on the No carcinogenic components identified.

Evaluation of Carcinogenic Risks

to Humans DIOXANE

US. National Toxicology Program No carcinogenic components identified.

(NTP) Report on Carcinogens





No carcinogenic components identified.

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DIOXANE

US. OSHA Specifically Regulated

Substances (29 CFR 1910.1001-

1050

Germ cell mutagenicity

In vitro Product
In vivo Product
In vivo Product
No mutagenic components identified.
No mutagenic components identified.

Reproductive toxicity Product
Specific target organ toxicity single exposure Product

single exposure Product

Specific target organ toxicity - repeated exposure Product

repeated exposure Product Aspiration hazard Product Other effects : No data available.

No data available. No data available.

Not classifiedNone known.

12. Ecological Information

Ecotoxicity

Acute hazards to the aquatic environment:

Fish Product : No data available.

Specified substance(s): LC 50 (Rainbow trout, donaldson trout (Oncorhynchus mykiss), 12

POTASSIUM THIOCYANATE h): 410 - 508 mg/l Mortality

LC 50 (Rainbow trout, donaldson trout (Oncorhynchus mykiss), 12

h): 492 - 681 mg/l Mortality

LC 50 (Rainbow trout, donaldson trout (Oncorhynchus mykiss), 12

h): 504 - 706 mg/l Mortality

LC 50 (Rainbow trout, donaldson trout (Oncorhynchus mykiss), 18

h): 1,849 - 1,894 mg/l Mortality

LC 50 (Rainbow trout, donaldson trout (Oncorhynchus mykiss), 24

h): 955 - 1,386 mg/l Mortality

Aquatic invertebrates Product : No data available.

Specified substance(s): LC 50 (Water flea (Daphnia magna), 96 h): 1.16 - 8.946 mg/l

POTASSIUM THIOCYANATE Mortality

LC 50 (Water flea (Daphnia magna), 96 h): 1.429 - 9.155 mg/l

Mortality

LC 50 (Water flea (Daphnia magna), 96 h): 22.03 - 41.633 mg/l

Mortality

LC 50 (Water flea (Daphnia magna), 96 h): 23.149 - 45.657 mg/l

Mortality

LC 50 (Water flea (Daphnia magna), 96 h): 23.86 - 46.937 mg/l

Mortality

Chronic hazards to the aquatic environment:

Fish Product : No data available.

Aquatic invertebrates Product : No data available.

Toxicity to Aquatic Plants Product: : No data available.

Persistence and degradability

Biodegradation Product: There are no data on the degradability of this product.





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BOD/COD ratio Product **Bioaccumulative potential**

Bioconcentration factor (BCF)

Product

Partition coefficient n-octanol / water (log Kow) Product

Mobility in soil

Other adverse effects

No data available.

No data available on bioaccumulation.

No data available.

No data available.

Harmful to aquatic life with long lasting effects. There are no data

on the ecotoxicity of this product.

13. Disposal consideration

Disposal instructions Discharge, treatment, or disposal may be subject to national, state,

or local laws. 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.

Since emptied containers retain product residue, follow label **Contaminated packaging**

warnings even after container is emptied.

14. Transport information

	UN No.	UN proper shipping name	Hazard	Packaging	Marine Pollutant
			Class(es)	group	
DOT			Not regulated.		
IMDG			Not regulated.		
IATA			Not regulated.		

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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16. Other Information

NFPA Hazard ID





Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

Issue Date:01/08/2014

Version : 0

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