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Product Name: Potassium nitrate

CAS No.: 7757-79-1

Version: 0

| Product Code | : 90219, 90512 | 90219, 90512 | | | |
|---|--------------------------------|--|--|--|--|
| Company Name | : Advent Chembio Pr | Advent Chembio Private Limited | | | |
| Address | | W-288, MIDC, TTC INDUSTRIAL AREA, THANE-BELAPUR ROAD, RABALE, NAVI MUMBAI - 400 701. info@adventchembio.com | | | |
| E-mail | : <u>info@adventchemb</u> | | | | |
| WEBSITE | : <u>www.adventchemb</u> | www.adventchembio.com | | | |
| Company Phone Number | : 022-27690837 | 022-27690837 | | | |
| 2. Composition/Information | on Ingredients | | | | |
| Ingredient | CAS No | Percent | | | |
| POTASSIUM NITRATE | 7757-79-1 | 99- 100% | | | |
| 3. Hazards Identification | | | | | |
| Hazard classification Physical hazards | | | | | |
| Oxidizing solids | : Category 3 | | | | |
| Environmental hazard | | | | | |
| Acute hazards to the aquatic environment | : Category 3 | | | | |
| Labels elements | | | | | |
| Hazard symbol | | | | | |
| | | b b | | | |
| Signal word | : Warning. | | | | |
| Hazard statement | | y fire; oxidizer. | | | |
| Precautionary statement | Harmful to ac | quatic fife. | | | |
| Prevention | and other con mixing with o | rom heat No smoking. Keep/Store away from clothing nbustible materials. Take any precaution to avoid combustibles. Wear protective gloves/protective protection/face protection. Avoid release to the | | | |
| Response | | e: Use water for extinction. Call a POISON CENTER or tian if you feel unwell. | | | |
| Disposal | | ontents/container to an appropriate treatment and ity in accordance with applicable laws and regulations, | | | |



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Other hazards which do not result : N 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 thoroughly. Call a POISON CENTER or Ingestion : doctor/physician if you feel unwell. Inhalation Move to fresh air. Get medical attention if symptoms persist. : **Skin contact** Wash skin thoroughly with soap and water. Get medical attention if : irritation persists after washing. Eye contact Flush thoroughly with water. If irritation occurs, get medical : assistance. Most important symptoms/effects, May cause irritation to skin, eyes, and respiratory tract. : acute and delayed **Indication of immediate medical** Treat symptomatically. Symptoms may be delayed. : attention and special treatment needed

| General fire hazards | : In case of fire and/or explosion do not breathe fumes . |
|--|---|
| Suitable (and unsuitable) extinguish | ing media |
| Suitable extinguishing media | : The product is non-combustible. Use fire-extinguishing media appropriate for surrounding materials. |
| Unsuitable extinguishing media | : None known. |
| Specific hazards arising from the chemical | : Strong oxidizer. Contact with combustible material may cause fire. Fire or high temperatures may cause explosive decomposition, especially if confined. Fire may produce irritating, corrosive and/or toxic gases. |
| Special protective equipment and p | recautions for firefighters |
| Special fire fighting procedures | : Use water spray to keep fire-exposed containers cool. Move containers from fire area if you can do so without risk. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. Cool containers exposed to flames with water until well after the fire is out. |
| Special protective equipment for fire-fighters | : Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Self-contained breathing apparatus and full |



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protective clothing must be worn in case of fire.

| Personal precautions, protective : equipment and emergency procedures | ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). 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. |
|---|---|
| Methods and material for : containment and cleaning up | Keep combustibles (wood, paper, oil, etc.) away from spilled material. Avoid dust formation. Sweep up and place in a clearly labeled container for chemical waste. Collect in a non-combustible container for prompt disposal. Clean surface thoroughly to remove residual contamination. |
| Notification Procedures : | Dike for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. Inform authorities if large amounts are involved. |
| Environmental precautions : | Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Do not contaminate water sources or sewer. |

| 7. Handling and Storage | | |
|---|---|---|
| Precautions for safe handling | or sources of ignition. Pro away from combustible m as required. Avoid contac breathe dust. Use only wi thoroughly after handling | open near an open flame, sources of heat otect material from direct sunlight. Keep naterial. Use personal protective equipment t with eyes, skin, and clothing. Do not th adequate ventilation. Wash hands . Do not handle until all safety precautions stood. Obtain special instructions before |
| Conditions for safe storage, including any incompatibilities | - Keep away from flamma | light, sparks and flame. Oxidizing material able and combustible materials. Store away als. Keep container tightly closed. Store in ll-ventilated place. |



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| 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, suc | h 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 | : Chemical resistant clothing . | | |
| Respiratory protection | : In case of inadequate ventilation use suitable respirator. High-efficiency particulate respirator with full facepiece. | | |
| Hygiene measures | : Provide eyewash station and safety shower. Do not eat, drink or smoke when using the product. 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. Wash contaminated clothing before reuse. | | |

9. Physical and Chemical Properties

| Appearance | : | Solid Crystals white. |
|-----------------------------------|---|-----------------------|
| Odor | : | Odorless |
| рН | : | 7 |
| Melting point/freezing point | : | 337 °C |
| Initial boiling point and boiling | : | 400 °C |
| range | | |
| Flash Point | : | No data available |
| Vapor pressure | : | No data available |
| Vapor density | : | No data available |
| Relative density | : | 2.10 (20 °C) |
| Solubility in water | : | Soluble |
| Solubility (other) | : | No data available. |
| Formula | : | HNO3.K |
| Molecular Weight | : | 101.1 g/mol |



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| 10. Stability and Reactivity | |
|---|--|
| Reactivity Chemical stability Possibility of hazardous reactions Conditions to avoid Incompatible materials Hazardous decomposition products | No dangerous reaction known under conditions of normal use . Stable; however, may decompose if heated. Hazardous polymerization does not occur . Contact with combustibles. Excessive heat. Contact with incompatible materials. Flammable/combustible material. Organic compounds. Strong acids. Metals. Nitrogen Oxides . |
| 11. Toxicological Information | |
| Information on likely routes of expos | sure |
| Ingestion | : May be harmful if swallowed. |
| Inhalation | : Dust may irritate throat and respiratory system and cause |
| Skin contact Eye contact | coughing.May cause irritation.May irritate eyes. |
| Information on toxicological effects | |
| Acute toxicity (list all possible routes | of exposure) |
| Oral Product | : LD 50 (Rat): 3,750 mg/kg. |
| Dermal Product | : No data available. |
| Inhalation Product Repeated dose toxicity Product Skin corrosion/irritation Product | No data available No data available. May cause skin irritation. |
| Serious eye damage/eye irritation | : May cause temporary eye irritation . |
| Product Respiratory or skin sensitization Product | : Not a skin sensitizer. |
| Carcinogenicity Product IARC Monographs on the Evaluation of Carcinogenic Risks to Humans DIOXANE | This substance has no evidence of carcinogenic properties.No carcinogenic components identified. |
| US. National Toxicology Program (NTP) Report on Carcinogens DIOXANE | : No carcinogenic components identified. |
| US. OSHA Specifically Regulated Substances (29 CFR 1910.1001- 1050 Germ cell mutagenicity | : No carcinogenic components identified. |



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| In vitro Product | : No mutagenic components identified. | |
|----------------------------------|--|--|
| In vivo Product | : No mutagenic components identified. | |
| Reproductive toxicity Product | : No components toxic to reproduction. | |
| Specific target organ toxicity - | : None known | |
| single exposure Product | | |
| Specific target organ toxicity - | : None known | |
| repeated exposure Product | | |
| Aspiration hazard Product | : Not classified | |
| Other effects | : None known. | |
| | | |

12. Ecological Information

| Ecotoxicity Acute hazards to the aquatic environ Fish Product Specified substance(s): POTASSIUM NITRATE | mei : | nt : No data available. LC 50 (Bluegill (Lepomis macrochirus), 96 h): 420 mg/l Mortality LC 50 (Western mosquitofish (Gambusia affinis), 96 h): 62 mg/l Mortality |
|---|----------|---|
| Aquatic invertebrates Product Specified substance(s): POTASSIUM NITRATE | : | No data available. LC 50 (Zebra mussel (Dreissena polymorpha), 24 h): 220 - 313 mg/l Mortality |
| Chronic hazards to the aquatic enviro | onn | nent : |
| 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. |
| BOD/COD ratio Product | : | No data available. |
| Bioaccumulative potential | | |
| Bioconcentration factor (BCF) | : | No data available on bioaccumulation. |
| Product | | |
| Partition coefficient n-octanol / | : | No data available. |
| water (log Kow) Product | | |
| Mobility in soil | : | The product is water soluble and may spread in water systems. |
| Other adverse effects | : | Harmful to aquatic organisms. |
| | | |



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 13. Disposal consideration

 Disposal instructions
 : Discharge, treatment, or disposal may be subject to national, state, or local laws.

 Contaminated packaging
 : Since emptied containers retain product residue, follow label warnings even after container is emptied.

14. Transport information

| | UN No. | UN proper shipping name | Hazard Class(es) | Packaging group | Marine Pollutant |
|------|---------|-------------------------|---------------------|--------------------|------------------|
| DOT | UN 1486 | Potassium nitrate | 5.1 | III | No |
| IMDG | UN 1486 | Potassium nitrate | 5.1 | III | No |
| IATA | UN 1486 | Potassium nitrate | 5.1 | III | No |

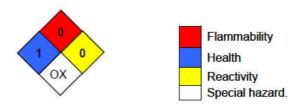
15. Regulatory Information

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.

16. Other Information

NFPA Hazard ID



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



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