



Product Name: Sodium orthophosphate dodecahydrate CAS No.: 10101-89-0 Version: 0

1. Identification

Product Code : 90248, 90558

Company Name : Advent Chembio Private Limited

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2. Composition/Information on Ingredients

IngredientCAS NoPercentSODIUM ORTHOPHOSPHATE10101-89-098-100 %

DODECAHYDRATE

3. Hazards Identification

Hazard classification : Not classified

Labels elements

Hazard symbol : No symbol Signal word : Warning.

Potential Health Effects: General: Irritating to eyes, respiratory system and skin. Aqueous, highly

alkaline solutions may produce caustic burns.

Precautionary statement

Inhalation : Irritating to respiratory system.

Skin: Irritating to skin. Aqueous, highly alkaline solutions may produce

caustic burns.

Eye : Causes eye irritation. Aqueous, highly alkaline solutions may

produce caustic burns.

Ingestion : May cause irritation of the gastrointestinal tract.

Chronic Effects: May cause permanent tissue damage to the eyes and skin.

Routes of Exposure : Skin and/or eye contact. Inhalation, Ingestion.

OSHA Regulatory Status : This product is hazardous according to OSHA 29CFR 1910.1200.

Environment: The product may affect the acidity (pH-factor) in water with risk of

harmful effects to aquatic organisms.





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4. First Aid Measures

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

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

data sheet to the doctor in attendance.

Rinse mouth. Call a POISON CENTER or doctor/physician if you **Ingestion**

feel unwell.

Inhalation Move to fresh air. Get medical attention if symptoms occur.

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

> removing contaminated clothing and shoes. Get medical attention immediately. Wash contaminated clothing before reuse. Destroy or

thoroughly clean contaminated shoes.

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

easy to do, remove contact lenses. Get medical attention

immediately.

Do NOT induce vomiting. Drink a few glasses of water or milk. **Ingestion**

Never give liquid to an unconscious person. Get medical attention.

5. Fire fighting measures

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media The product is non-combustible. Use fire-extinguishing media

appropriate for surrounding materials.

Unsuitable extinguishing media

Specific hazards arising from the

chemical

None known.

Aqueous solutions are highly caustic. Wear appropriate protective

gear.

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

fire-fighters

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**

Ventilate closed spaces before entering them. Keep unauthorized personnel away. Avoid inhalation of dust. Avoid contact with spilled material.

Sweep up and place in a clearly labeled container for chemical waste. Clean surface thoroughly to remove residual contamination.

Prevent entry into waterways, sewer, basements or confined areas. Inform authorities if large amounts are involved.





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

into drains, water courses or onto the ground.

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 containers tightly closed. Store in cool, dry place. Store in a

well-ventilated place.

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.

Eye/face protection : Use tight fitting goggles if dust is generated.

Hand protection : Wear protective gloves.

Other : Wear suitable protective clothing.

Respiratory protection : In case of inadequate ventilation use suitable respirator.

Hygiene measures : Provide eyewash station and safety shower. Observe good industrial

hygiene practices. Wash hands before breaks and immediately after handling the product. Do not eat, drink or smoke when using the product.

Take off contaminated clothing and wash before reuse.

9. Physical and Chemical Properties

Appearance : Solid white Crystalline Powder.

Odor : Odorless

pH : No data available.

Melting point/freezing point : 73 °C Initial boiling point and boiling : Decomposes

range

Flash Point : Not applicable Vapor pressure : No data available





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Vapor density : No data available

Relative density : 1.62
Solubility in water : Appreciable
Solubility (other) : No data available.
Formula : Na3PO4.12H2O
Molecular Weight : 380.12 g/mol

10. Stability and Reactivity

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability: Material is stable under normal conditions.Possibility of hazardous reactions: Hazardous polymerization does not occur.

Conditions to avoid : Reacts violently with strong acids. Heat, sparks, flames.

Incompatible materials : Acids.

Hazardous decomposition products : Sodium oxides oxides of phosphorus

11. Toxicological Information

Information on likely routes of exposure

Ingestion: Irritating. May cause nausea, stomach pain and vomiting.

Inhalation : May cause irritation to the respiratory system.

Skin contactEye contactCauses skin irritation.Causes serious eye irritation.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral Product : LD 50 (Rat): 7,400 mg/kg

Dermal Product: No data availableInhalation Product: No data availableRepeated dose toxicity Product: No data available

Skin corrosion/irritation Product : May cause skin irritation.

Serious eye damage/eye irritation

Product

May irritate eyes.

Respiratory or skin sensitization: Not a skin sensitizer.

Product

Carcinogenicity Product: This substance has no evidence of carcinogenic properties.

IARC Monographs on the

Evaluation of Carcinogenic Risks

to Humans DIOXANE

US. National Toxicology Program

(NTP) Report on Carcinogens

No carcinogenic components identified.

No carcinogenic components identified.





No carcinogenic components identified.

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No data available.

No data available.

DIOXANE

US. OSHA Specifically Regulated

Substances (29 CFR 1910.1001-

1050

Germ cell mutagenicity

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 -

single exposure Product

Specific target organ toxicity repeated exposure Product

Not classified. **Aspiration hazard Product** Other effects None known.

12. Ecological Information

Ecotoxicity

Acute hazards to the aquatic environment:

Fish Product No data available. **Aquatic invertebrates Product** No data available.

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.

BOD/COD ratio Product No data available.

Bioaccumulative potential

Bioconcentration factor (BCF)

Product

No data available.

Partition coefficient n-octanol /

water (log Kow) Product

Mobility in soil

The product is water soluble and may spread in water systems. Other adverse effects The product may affect the acidity (pH-factor) in water with risk

of harmful effects to aquatic organisms.

No data available on bioaccumulation.

13. Disposal consideration

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

or local laws.

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

warnings even after container is emptied.





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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.		
			C		

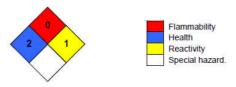
15. Regulatory Information

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

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