

SAFETY DATA SHEET

Version:02

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PRODUCT NAME: ORTHOPHOSPHORIC ACID CAS Number: 7664-38-2

1. IDENTIFICATION:

Product Code : 93547

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 : <u>www.adventchembio.com</u>

Company Phone Number : 022-27690837

2. HAZARDS IDENTIFICATION:

Hazard classification

Corrosive to metals : Category 1

Skin corrosion : Category 1B

Serious eye damage/eye

irritation

: Category 1

Acute Toxicity (Oral) : Category 4

Labeling according to Regulation (EC) No 1272/2008 (CLP)

Hazard symbol :

(!)

Signal word : Danger

Hazard statement May be corrosive to metals.

: Harmful if swallowed

Causes severe skin burns and eye damage

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.

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,



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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 in well-ventilated place. Keep container tightly closed. Containers which are

opened must be carefully resealed and kept upright to prevent leakage.

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.

COMPOSITION/INFORMATION ON INGRADIENTS:

Ingredient	CAS Number	Percent
Orthophosphoric Acid 75%	7664-38-2	73.0 - 78.0%
Water	7732-18-5	22.0 - 27.0%

4. FIRST AID MEASURES:

. Get medical advice/attention if you feel unwell. Show this safety data sheet to the General information

doctor in attendance.

Call a physician or poison control center immediately. Rinse mouth. Do NOT induce Ingestion

: 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

Inhalation : breathing stops, 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.

Immediately flush with plenty of water for at least 15 minutes. If easy to do, Eye contact

remove contact lenses. Get medical attention.

symptoms/effects, acute

and delayed

Most important

Indication of immediate medical attention and

special treatment

needed

Burning sensation, Cough, Sore throat, Shortness of breath, Labored breathing,

: Wheezing, Abdominal pain, Nausea, Vomiting, Headache, Weakness, Convulsions,

Collapse, Redness, Burn, Pain, Blistering

: Symptoms may be delayed. Treat symptomatically.



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5. FIRE FIGHTING MEASURES:

General information

: Flammable liquid and vapor. In case of fire and/or explosion do not breathe fumes.

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

Can be ignited easily and burns vigorously. Vapors may cause a flash fire or ignite explosively. Vapors may travel considerable distance to a source of ignition and flash back. Prevent buildup of vapors or gases to explosive concentrations. Heat

may cause the containers to explode.

Special protective equipment and precautions for firefighters

Special firefighting

procedures

Use water spray to keep fire-exposed containers cool. Water may be ineffective in

fighting the fire. Fight fire from a protected location. Move containers from fire

area if you can do so without risk.

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

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Avoid breathing mists or vapors. Keep upwind. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.

Eliminate all ignition sources if safe to do so. Use only non-sparking tools. Take precautionary measures against static discharges. Stop leak if possible without any risk. Absorb spill with vermiculite or other inert material, then place in a container

for chemical waste. Clean surface thoroughly to remove residual contamination. Dike far ahead of larger spill for later recovery and disposal.

Notification Procedures

Prevent entry into waterways, sewer, basements or confined areas. Inform

authorities if large amounts are involved.

Environmental precautions

Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

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



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breathe mist or vapor. Use only with adequate ventilation. Wash hands thoroughly

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after handling.

Conditions for safe storage, including any incompatibilities Keep away from food, drink and animal feeding stuffs. Keep container tightly closed in a dry, well-ventilated place. Ground container and transfer equipment to eliminate static electric sparks. Comply with all 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

controls

Appropriate engineering

Handle in accordance with good industrial hygiene and safety practice. Wash hands

before breaks and at the end of workday.

Individual protection measures, such as personal protective equipment

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

General information : 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. Chemical respirator with

organic vapor cartridge.

Always observe good personal hygiene measures, such as washing after handling

Hygiene measures 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.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance : Clear, colorless liquid

Odor : Odourless

Solubility : Miscible in water.

Formula : H_3PO_4

Molecular Weight : 98.00 g/mol



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PRODUCT NAME: ORTHOPHOSPHORIC ACID

Specific Gravity : 1.58 g/cm3 at 25°C

pH : 2.5 - 3.0 **Boiling Point** : 158 °C

Melting point/freezing

point

: -20.0°C

Flash Point : No data available

Vapor Density (Air=1) : No data available

Vapor Pressure (mm Hg) : No data available

10. STABILITY AND REACTIVITY:

Reactivity : No data available

Chemical stability : Stable under recommended storage conditions

Possibility of hazardous

reactions

: No data available

Conditions to avoid : No data available

Incompatible materials: Strong bases, Powdered metals.

Hazardous

decomposition products

: No data available

11. TOXICOLOGICAL INFORMATION:

Information on hazard classes as defined in Regulation (EC) No 1272/2008

Test data are not available for the complete mixture

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Information on likely routes of exposure

Ingestion If swallowed danger of perforation of the esophagus and the stomach (strong

corrosive effects)

Inhalation : cough, pain, choking, and breathing difficulties

Skin contact : causes severe burns, causes poorly healing wounds

Eye contact : causes burns, Causes serious eye damage, risk of blindness

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral Product LD 50 (Rat): >300 – 2.000 mg/kg

LD 50 (Rat): 1.530 mg/kg



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PRODUCT NAME: ORTHOPHOSPHORIC ACID

Dermal Product : LD 50 (Rabbit): 2.740 mg/kg

Inhalation Product No data available.

Repeated dose toxicity

Product

No data available.

Skin corrosion/irritation

Product

Causes severe skin burns and eye damage

Serious eye damage/eye

irritation Product Respiratory or skin : Causes serious eye damage.

sensitization Product Germ cell mutagenicity

: Shall not be classified as a respiratory or skin sensitiser

: Shall not be classified as germ cell mutagenic

Carcinogenicity Product

: Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ

toxicity - single exposure

Specific target organ

toxicity - repeated

exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

Other effects None known.

12. ECOLOGICAL INFORMATION:

Ecotoxicity

Acute hazards to the aquatic environment

EC 50 (aquatic invertebrates), 48 h): >100 mg/l Aquatic invertebrates

Product EC 50 (algae), 72 h): >100 mg/l

Chronic hazards to the aquatic environment

Aquatic invertebrates

: EC 50 (microorganisms), 3 h): >1.000 mg/l

Product

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 on bioaccumulation.

Partition coefficient n-

: No data available.



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octanol / water (log Kow) Product

Mobility in soil : No data available.

Other adverse effects

: No data available.

13. DISPOSAL CONSIDERATION:

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 INFORMATION:

	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
DOT	UN 1805	Phosphoric Acid Solution	8	III	No
IMDG	UN 1805	Phosphoric Acid Solution	8	III	No
IATA	UN 1805	Phosphoric Acid Solution	8	III	No

15. REGULATORY INFORMATION:

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



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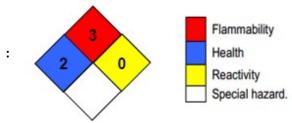
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16. OTHER INFORMATION:

NFPA Hazard ID



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

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