

Pg. 1 of 8

## SAFETY DATA SHEET

Version :02

### PRODUCT NAME: ORTHOPHOSPHORIC ACID

CAS Number: 7664-38-2

1. IDENTIFICATION:		
Product Code	:	90033, 90477, 90478, 90198, 13002,
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		
Corrosive to metals	Category 1	
Skin corrosion	Category 1B	
Serious eye damage/eye irritation	Category 1	
Acute Toxicity (Oral)	Category 4	
Labels elements	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 al 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 equipmed Use explosion-proof electrical/ ventilating/ lighting/ equipment. Use only non-sparking tools. Take precautionary measures against static discl	ent.
Response	IF exposed or concerned: Get medical advice/ attention. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse sk water/ shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact	kin with



Pg. 2 of 8

CHEMBIO PVT. LTD.®	SAFE	Version :02		
PRODUCT NAME: ORTH	IOPHOSPHORIC ACID			
Storage	IF SWALLOWED: Imme : Store in well-ventilate	erson to fresh air and keep comfortable fo diately call a POISON CENTER or doctor/p d place. Keep container tightly closed. Co	hysician. ontainers which are	
Disposal	: Dispose of contents/co	opened must be carefully resealed and kept upright to prevent leakage. 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/ INFO	RMATION ON INGRADIENTS	5:		
Ingredient	CAS Number	Percent		
Orthophosphoric Acid	7664-38-2	85.0 - 90.0%		
4. FIRST AID MEASURES	:			
General information	: Get medical advice/att doctor in attendance.	tention if you feel unwell. Show this safe	ty data sheet to the	
Ingestion	: vomiting. If vomiting o into the lungs.	con control center immediately. Rinse mo occurs, keep head low so that stomach	content doesn't get	

		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.
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		Burning sensation, Cough, Sore throat, Shortness of breath, Labored breathing,
symptoms/effects, acute	:	Wheezing, Abdominal pain, Nausea, Vomiting, Headache, Weakness, Convulsions,

- and delayed Collapse, Redness, Burn, Pain, Blistering Indication of immediate medical attention and
  - : Symptoms may be delayed. Treat symptomatically.

#### 5. FIRE FIGHTING MEASURES:

special treatment

needed

General information	:	Flammable liquid and vapor. In case of fire and/or explosion do not breathe fumes.
Suitable (and unsuitable)	exti	nguishing media
Suitable extinguishing media	:	Water spray, foam, dry powder or carbon dioxide.



Pg. 3 of 8

## SAFETY DATA SHEET

Version :02

# PRODUCT NAME: ORTHOPHOSPHORIC ACID

CAS Number: 7664-38-2

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 equipm	ent	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.
Г		

#### 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.

#### 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. 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.



Pg. 4 of 8

**SAFETY DATA SHEET** 

Version :02

## PRODUCT NAME: ORTHOPHOSPHORIC ACID

CAS Number: 7664-38-2

8. EXPOSURE CONTROLS PERSONAL PROTECTION:		
Control parameters		
Occupational exposure limits		
Appropriate engineering	Handle in accordance with good industrial hygiene and safety practice. Wash hands	
controls	before breaks and at the end of workday.	
Individual protection meas	sures, such as personal protective equipment	
General information	<ul> <li>Good general ventilation (typically 10 air changes per hour) should be used.</li> <li>Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain</li> <li>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.</li> </ul>	
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.	
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.	

Appearance	:	Clear, colorless liquid
Odor	:	Odourless
Solubility	:	Miscible in water.
Formula	:	H <sub>3</sub> PO <sub>4</sub>
Molecular Weight	:	98.00 g/mol
Specific Gravity	:	1.71 g/cm3 at 25°C
рН	:	2.5 - 3.0
Boiling Point	:	158 °C
Melting point/freezing point	:	-20.0°C



Pg. 5 of 8

### SAFETY DATA SHEET

Version :02

#### PRODUCT NAME: ORTHOPHOSPHORIC ACID

CAS Number: 7664-38-2

Flash Point : No data available	
Vapor Density (Air=1) : No data available	
Vapor Pressure (mm Hg) : No data available	

10. STABILITT AND REACTIVITT:		
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	swallowed danger of perforation of the esophagus and the sto prrosive effects)	omach (strong
Inhalation	ough, pain, choking, and breathing difficulties	
Skin contact	auses severe burns, causes poorly healing wounds	
Eye contact	auses burns, Causes serious eye damage, risk of blindness	
Information on toxicologi	ects	
Acute toxicity (list all poss	outes of exposure)	
Oral Product	D 50 (Rat): >300 – 2.000 mg/kg	

	•	LD 50 (Rat): 1.530 mg/kg
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



Pg. 6 of 8

## **SAFETY DATA SHEET**

Version :02

## PRODUCT NAME: ORTHOPHOSPHORIC ACID

CAS Number: 7664-38-2

Serious eye damage/eye irritation Product	:	Causes serious eye damage.
Respiratory or skin sensitization Product	:	Shall not be classified as a respiratory or skin sensitiser
Germ cell mutagenicity	:	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	:	Shall not be classified as a specific target organ toxicant (single exposure).
toxicity - repeated 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 INFORM	ATI	ON:

Ecotoxicity Acute hazards to the aqu	atic environment
Aquatic invertebrates Product Chronic hazards to the ac	EC 50 (aquatic invertebrates), 48 h): >100 mg/l EC 50 (algae), 72 h): >100 mg/l uatic environment
Aquatic invertebrates Product	: EC 50 (microorganisms), 3 h): >1.000 mg/l
<b>Biodegradation Product</b>	: There are no data on the degradability of this product.
BOD/COD ratio Product	: No data available.
Bioaccumulative potentia	ıl
Bioconcentration factor (BCF) Product Partition coefficient n-	: No data available on bioaccumulation.
octanol / water (log Kow) Product	: No data available.
Mobility in soil	: No data available.
Other adverse effects	: No data available.



Pg. 7 of 8

**SAFETY DATA SHEET** 

Version :02

#### PRODUCT NAME: ORTHOPHOSPHORIC ACID

CAS Number: 7664-38-2

13. DISPOSAL CONSIDERA	TION:
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 INFORMA	TION:

	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
ΙΑΤΑ	UN 1805	Phosphoric Acid Solution	8	111	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.



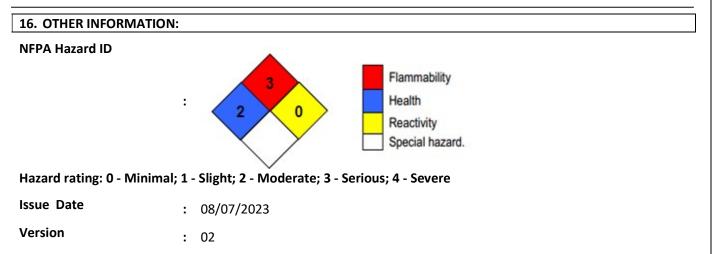
Pg. 8 of 8

#### SAFETY DATA SHEET

Version :02

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