# **SAFETY DATA SHEET**



# **PHOSPHORIC ACID**

# SECTION 1: Identification of the substance/mixture and of the company/undertaking Trade name:

1.1 Product identifier:	
CAS Number:	7664-232-2
EC number:	231-633-2
1.2 SYNONYMS:	Orthophosphoric acid      Dhagabagia (1/1) a sid
	Phosphoric(V) acid     F779
	• E338

## **SECTION 2: Hazards identification:**

2.1 Classification of the substance or mixture:	Classification according to Regulation (EC) No 1272/2008 The substance is not classified according to the CLP regulation.
2.2 Label elements:  Hazard Pictograms:	Labelling according to Regulation (EC) No 1272/2008 Acute Toxicity, Oral (Category 4) Serious Eye Damage/Eye Irritation (Category 1) Skin Corrosion/Irritation (Category 1B) Aquatic Toxicity (Category 3)
Signal Word:	Danger
Hazard statements:  YOUR CHEM	H290: May be corrosive to metals. H302: Harmful if swallowed. H314: Causes severe skin burns and eye damage. H318: Causes serious eye damage H412: Harmful to aquatic life with long-lasting effects.



Precautionary Statements:	p280: Wear protective gloves/protective clothing/eye protection/face protection.  p273: Avoid release to the environment.  p303+p361+p353: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.  p305+p351+p338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.  p301+p312: IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.  p330: Rinse mouth.  p404: Store in a closed container.  p501: Dispose of contents/container to an approved waste disposal plant.
2.3 Other hazards:	The state of the s
Inhalation:	can cause respiratory irritation and damage to the respiratory system, particularly in concentrated forms.
Ingestion:	can cause severe damage to the mouth, throat, and digestive tract, leading to symptoms such as pain, burns, and potential long-term harm.
Skin Contact:	can cause severe burns, irritation, and tissue damage, especially in
<del>-VOLLB CHEMI</del>	concentrated forms.
Eye contact:	can cause severe irritation, burns, and permanent eye damage, potentially leading to vision loss.
Chronic Exposure:	particularly in high concentrations, can lead to persistent respiratory issues, skin damage, and potential dental erosion, as well as long-term



	irritation to the eyes and mucous
	membranes.
Aggravation of pre-existing	may aggravate pre-existing
conditions:	conditions such as respiratory
	disorders (e.g., asthma), skin
FOTE	conditions (e.g., dermatitis), and eye
-51	disorders, due to its corrosive and
LOIL	irritating properties.

# **SECTION 3: Composition/information on ingredients**

3.1 Chemical characterisation:	Substances
CAS No:	Description: 7664-38-2
	PHOSPHORIC ACID
Identification number(s):	EC number: 231-633-2

# **SECTION 4: First aid measures**

4.1 Description of first aid	
measures	
General information:	
After inhalation:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
After skin contact:	Remove contaminated clothing. Wash with soap and water. Consult a physician.
After eye contact:	Immediately flush eyes with plenty of water for at least 15 minutes. consult a physician.
After swallowing:	Rinse mouth with water. Immediately after ingestion. Never give anything by mouth to an unconscious person. Do not induce vomiting. Consult a physician.



4.2 Most important symptoms	most important symptoms include
and effects, both acute and	severe skin and eye burns,
delayed:	respiratory irritation, mouth and
	throat damage if ingested, and
	potential long-term effects such as
FOTD	scarring, vision impairment, and
	respiratory issues with prolonged
	or repeated exposure.
4.3 Indication of any immediate	Treat symptomatically.
medical attention and special	
treatment needed:	

# **SECTION 5: Firefighting measures**

5.1 Extinguishing media:	Carbon dioxide. Water spray.
	Alcohol-resistant foam.
5.2 Special hazards arising from	Can cause skin burns due to its
the substance or mixture:	corrosive nature.
5.3 Advice for firefighters:	Wear fully protective suit, safety
	glasses and respiratory device. Cool
	tanks/drums with water
	spray/remove them into safety.
5.4 further information:	no data available

# **SECTION 6: Accidental release measures**

6.1 Personal precautions,	Use personal protective
protective equipment and	equipment.
emergency procedures:	Avoid breathing vapors, mist or
	gas. Ensure adequate ventilation.
	Remove all sources of ignition.
AUIID GHEWI	Evacuate personnel to safe areas.
IUUN UNLIVII	Beware of vapours accumulating
	to form explosive concentrations.
	Avoid dust accumulation. Seek
	medical attention.
6.2 Environmental precautions:	Do not enter this chemical into
	drains.



6.3 Methods and material for	Take up spill into absorbent
containment and cleaning up:	material, e.g.: sand, earth,
	vermiculite, powdered limestone.
	Scoop absorbed substance into
	closing containers. Spill must not
FCTD	return in its original container.
	Clean contaminated surfaces with
	an excess of water. Wash clothing
	and equipment after handling.

# **SECTION 7: Handling and storage**

7.1 Precautions for safe handling:	For use in are with adequate
7.1 Ficeautions for safe nationing.	ventilation.
	Empty containers pose a fire risk,
	evaporate the residue under a
	fume hood. Ground all equipment
	containing material
	Do not use in confined spaces.
	Electrostatic discharge protection.
	Minimize dust generation and
	accumulation.
	Avoid ingestion and inhalation.
7.2 Conditions for safe storage,	Store in original containers.
including any incompatibilities:	Keep containers securely sealed
	Store in a cool, dry, well-ventilated
	area.
	Store away from incompatible
	materials and foodstuff containers.
	Protect containers against physical
	damage and check regularly for
	leaks. Store in a dry and dark area.
Danish and a bank by	
Requirements to be met by	Keep container tightly closed in a
storerooms and receptacles:	dry and well-ventilated place.
	Containers which are opened must
	be carefully resealed and kept
	upright to prevent leakage.
7.3 Specific end uses:	no data available



# **SECTION 8: Exposure controls/personal protection**

8.1 Control parameters	
•	A
Additional information about	A system of local and general
design of technical facilities:	exhaust is recommended.
8.2 Exposure controls	
Appropriate engineering controls	Handle in accordance with good
FCTI	industrial hygiene and safety
	practice. Wash hands before
	breaks and at the end of workday.
Personal protective equipment:	Dust respirator, protective masks,
, , , , , , , , , , , , , , , , , , ,	wearing anti chemical gloves,
	rubber gloves, etc.
General protective and hygienic	Eyes, body and hand protection,
	maintain indoor air unobstructed.
measures:	
	Wear protective equipment.
	Respiratory protection: Required.
Protection of hands:	Handle with gloves. Gloves must be
	inspected prior to use. Use proper
	glove removal technique (without
	touching glove's outer surface) to
	avoid skin contact with this
	product. Dispose of contaminated
	gloves after use in accordance with
	applicable laws. Wash and dry
	hands.
	Eye protection: Required
Protection of Body:	Complete suit protecting against
	chemicals, Flame retardant
	antistatic protective clothing.
	ag.

# SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties General Information	
Appearance: Form:	Crystalline powder or liquid
	(concentrate
Colour:	Colourless
Odour:	Odorless



pH-value:	2
Melting point/Melting range:	42.35°C
Boiling point/Boiling range:	158°C
Flammability (solid, gaseous):	Non-flammable
Ignition temperature:	Not applicable
Decomposition temperature:	300°C
Self-igniting:	Not applicable
Flash point:	Not applicable
Danger of explosion:	None
Explosion limits: Lower:	Not applicable
Explosion limits: Upper:	Not applicable
Vapour pressure:	Not determined
Density at 20 °C:	1.88 g/cm <sup>3</sup>
Relative density:	1.88
Vapour density:	3.4
Evaporation rate:	Not applicable
Solubility in / Miscibility with-	Highly soluble
·water at 20 °C:	
Partition coefficient:(n- octanol/water)	-3.3
Viscosity:	1.52 Pa·s at 20°C

# **SECTION 10: Stability and reactivity**

10.1 Reactivity	No reaction under storage conditions.
10.2 Chemical stability	This chemical is stable under storage conditions.
10.3 Possibility of hazardous reactions	None
10.4 Conditions to avoid	Incompatible materials, heat.
10.5 Incompatible materials	Bases, aluminum, copper, mild steel, brass and bronze
10.6 Hazardous decomposition products	phosphorus oxides and/or phosphine from thermal decomposition and hydrogen gas from reaction with metals.



# **SECTION 11: Toxicological information**

11.1 Information on toxicological effects	
Acute Toxicity:	LD50 (Oral, Rat): 1530 mg/kg LD50 (Dermal, Rabbit): no data available LC50 (Inhalation Rat): no data available
Skin corrosion/Irritation:	Can cause skin burns.
Serious eye damage/irritation:	Can cause eye irritation at high concentrations.
Respiratory damage/irritation:	No data available
Ingestion:	No data available
Germ cell mutagenicity:	No data available
Carcinogenicity:	No data available
Reproductive toxicity:	(Rat) One-generation: 375 mg/kg Results- did not affect offspring growth in rats.
Specific target organ toxicity -	No data available
single exposure:	
Specific target organ toxicity - repeated exposure:	No data available
Aspiration hazard:	No data available
Signs and Symptoms of Exposure:	Refer section 2.3
11.2 Additional toxicological information	
Biodegradability:	Not biodegradable

# **SECTION 12: Ecological information**

12.1 Toxicity Aquatic toxicity:	LC50(fish): no data available EC50(daphnia): 4.6 mg/kg (12hr) EC50(algae): no data available
12.2 Persistence and degradability:	Not biodegradable and persistent
12.3 Bioaccumulative potential:	low bioaccumulative
12.4 Mobility in soil:	High mobility
12.5 Other adverse effects:	No data available



# **SECTION 13: Disposal considerations**

13.1 Waste treatment methods	
Uncleaned packaging	dispose of in accordance with local
Recommendation:	hazardous waste regulations
Recommended cleansing agents:	Water,baking soda, calcium
	carbonate, mild detergents.

# **SECTION 14: Transport information**

14.1 UN-Number · ADR, ADN,	1805
IMDG, IATA:	
14.2 UN proper shipping name ·	PHOSPHORIC ACID
ADR, ADN, IMDG, IATA:	
14.3 Transport hazard class(es) ·	8
ADR, ADN, IMDG, IATA:	
14.4 Packing group · ADR, IMDG,	3
IATA:	
14.5 Environmental hazards:	Not classified
14.6 Special precautions for user:	Handle responsibly.

# **SECTION 15: Regulatory information**

	D: .: 0030/50/511
15.1 Safety, health and	Directive 2012/18/EU, under that
environmental	this substance is not classified in
regulations/legislation specific	listed substance
for the substance or mixture	
Directive 2012/18/EU	
Named dangerous substances:	This substance is not listed in the
	annex 1 to the directive.
15.2 Chemical safety assessment:	Chemical assessment has not been
	carried out

### **SECTION 16: Other information**

The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users



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