

SAFETY DATA SHEET

Phosphoric Acid

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

1.1 Product identifier:	1070
CAS Number:	7664-38-2
EC number:	231-633-2
1.2 SYNONYMS	GRMGA, PAPMGA, GQ54, PHOS54,
	PHOS60

SECTION 2: Hazards identification:

2.1 Classification of the substance or mixture:	Classification according to Regulation (EC) No 231-633-2 The substance is classified according to the CLP regulation.
2.2 Label elements:	Labelling according to Regulation (EC) No 231-633-2
Hazard Pictograms:	
Signal Word:	corrosive
Hazard statements:	H314: Causes severe skin burns and eye damage
Precautionary Statements:	P280: Wear protective gloves/protective clothing/eye protection/face protection. P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do –
TOON ONLINE	continue rinsing.
2.3 Other hazards:	
Inhalation:	Inhalation can cause irritation or corrosive burns to the upper respiratory system, including nose, mouth, and throat. Lung irritation and pulmonary edema and chemical pneumonitis can also occur
Ingestion:	Ingestion causes irritation and can cause corrosive burns to mouth,



	throat and stomach resulting in
	hemorrhaging and permanent
	damage. Can be fatal if swallowed.
Skin Contact:	May cause severe burns and
	ulceration to skin.
Eye contact:	Contact causes eye irritation, may
	cause burns or blindness.
Chronic Exposure:	No data available
Aggravation of pre-existing conditions :	No data

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:	Remove to fresh air. If breathing
	has stopped, give artificial
	respiration with the aid of a pocket
	mask equipped with a one way
	valve or other proper respiratory
	medical device. If breathing with
	difficulty, give oxygen. Observe for
VOUD OUTNIO	possible delayed reaction
After skin contact:	Immediately flush skin with plenty
	of water while removing
	contaminated clothing. Get
	medical attention if irritation
	develops or persists.
After eye contact:	Immediately flush eyes (holding
	eyelids apart) with plenty of water
	for at least 15 minutes. Get medical
	attention.
After swallowing:	Do not induce vomiting. Drink
	large amounts of water (or milk if



	available) to dilute the acid. Get medical attention immediately.
4.2 Most important symptoms and effects, both acute and delayed:	No data
4.3 Indication of any immediate medical attention and special treatment needed:	No data

SECTION 5: Firefighting measures

5.1 Extinguishing media	Phosphoric Acid is not flammable; use most appropriate agent to extinguish surrounding material.
5.2 Special hazards arising from the substance or mixture	No data
5.3 Advice for firefighters	No data
5.4 further information	no data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures	No data
6.2 Environmental precautions:	No data
6.3 Methods and material for containment and cleaning up:	No data

SECTION 7: Handling and storage

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7.1 Precautions for safe handling	Use appropriate personal
	protective equipment as specified
	in Section VIII. Avoid contact with
	skin and eyes. Avoid inhalation and
	ingestion.
7.2 Conditions for safe storage,	Store in unopened container in
including any incompatibilities	cool, well ventilated area, away
	from potential sources of heat and
	fire. Keep away from combustible



	materials, strong bases and metals.
	Large storage tanks should be
	bermed and electrically grounded.
	Avoid using glass or unprotected
	steel containers
Requirements to be met by	No data
storerooms and receptacles:	1076
LUID.	13/0
7.3 Specific end uses	Use with adequate ventilation.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters	
Additional information about design of technical facilities:	No data
8.2 Exposure controls	
Appropriate engineering controls	Good ventilation should be sufficient to control airborne levels
Personal protective equipment:	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.
General protective and hygienic measures:	No data
Respiratory protection:	Wear NIOSH approved respiratory protective equipment when vapor or mists may exceed applicable concentration limits.
Protection of hands:	No data
Eye protection:	Wear chemical splash goggles and face shield (ANSI Z87.1 or approved equivalent) when eye and face contact is possible due to splashing or spraying of material.
Protection of Body:	Where contact is likely, wear chemical-resistant gloves, a chemical suit, rubber boots and chemical safety goggles plus a face shield.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties General Information	
Appearance: Form:	viscous liquid
Colour:	Green

Odour:	acrid odor
pH-value:	1-1.5 at 1-10 g/L
Melting point/Melting range:	Not Applicable
Boiling point/Boiling range:	268-380°F
Flammability (solid, gaseous):	Not applicable
Ignition temperature:	No data available
Decomposition temperature:	No data available
Self-igniting:	No data available
Flash point:	Not applicable
Danger of explosion:	No data available
Explosion limits: Lower:	No data available
Explosion limits: Upper:	No data available
Vapour pressure:	0.0001 mmHg
Density at 20 °C:	1.88 g/cm ³
Relative density:	1.88.
Vapour density:	No data available
Evaporation rate:	No data available
Solubility in / Miscibility with-	Complete
•water at 20 °C:	
Partition coefficient:(n-	No data available
octanol/water)	
Viscosity:	67-140 cp @ 75°F, 40-95 cp @ 100°F
	(53- 62% P2O5)

SECTION 10: Stability and reactivity

10.1 Reactivity	No data available
10.2 Chemical stability	This product is hygroscopic, but is stable under normal conditions of storage, handling and use
10.3 Possibility of hazardous reactions	Will not occur
10.4 Conditions to avoid	High temperatures

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10.5 Incompatible materials	Bases, aluminum, copper, mild steel, brass and bronze
10.6 Hazardous decomposition products ESTD	Fluoride compounds from the heating of wet process acid, phosphorus oxides and/or phosphine from thermal decomposition and hydrogen gas from reaction with metals

SECTION 11: Toxicological information

11.1 Information on toxical grad	
11.1 Information on toxicological effects	
Acute Toxicity:	LD50(Rat) = 1,530 mg/kg bw
	LC50(Guinea pig, mouse, rat,
	rabbit) 1-hr: 61 – 1,689 mg/m3
	P2O5.
Skin corrosion/Irritation:	Skin Irritation/Corrosion: (Rabbit)
	24-hr: Highly irritating to corrosive
Serious eye damage/irritation:	Eye Irritation/Corrosion: (Rabbit)
	OECD Guideline 405: Not irritating
	at 17% solution but severe irritation
	at higher concentration.
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
	bw did not affect offspring growth
	in rats.
Specific target organ toxicity -	No data available
single exposure:	
Specific target organ toxicity -	No data available 🚽 👘 🚽 🚽
repeated exposure:	
Aspiration hazard:	No data available
Signs and Symptoms of Exposure:	No data available
11.2 Additional toxicological	
information	
Aquatic Toxicity:	No data available
Biodegradability:	No data available

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SECTION 12: Ecological information

12.1 Toxicity Aquatic toxicity:	(Daphnia magna) 12-hr static: EC50 = pH 4.6; (Daphnia pulex) 12-hr static: EC50 = pH 4.1; (Gammarus pulex) 12-hr static: LC50 = pH 3.4
12.2 Persistence and degradability:	No data available
12.3 Bioaccumulative potential:	No data available
12.4 Mobility in soil:	No data available
12.5 Other adverse effects	No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods	
Uncleaned packaging	Proper Disposal: If the packaging
Recommendation:	cannot be cleaned effectively,
	dispose of it in accordance with
	local regulations for hazardous
	waste or corrosive materials. Use an
	authorized waste disposal service
	to ensure safe handling.
Recommended cleansing agents:	Diluted Sodium Bicarbonate
	(Baking Soda), Lime (Calcium
	Oxide or Calcium Hydroxide),
	Water and Soap, Ammonia
	Solution, Commercial Acid
	Neutralizers

SECTION 14: Transport information

14.1 UN-Number · ADR, ADN, IMDG, IATA:	1805 D D D D D D D D D D D D D D D D D D D
14.2 UN proper shipping name · ADR, ADN, IMDG, IATA:	Phosphoric Acid, Solution
14.3 Transport hazard class(es) • ADR, ADN, IMDG, IATA :	8
14.4 Packing group · ADR, IMDG, IATA:	111
14.5 Environmental hazards:	No data available
14.6 Special precautions for user	No data available

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SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Directive 2012/18/EU	Phosphoric acid falls under Category 3 of Directive 2012/18/EU (Seveso III) as a substance with hazardous properties but does not meet the thresholds for major accident hazards.
Named dangerous substances	phosphoric acid is considered a hazardous substance, but its classification depends on the concentration and the context in which it is used.
15.2 Chemical safety assessment:	Chemical assessment has been carried out under REACH regulation.

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 should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product

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