

(REACH) **Majestic Invesmet Powder**

Print date 26.03.2026

Revision date 26.03.2026

Version 1.0 (en)

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

1.1 Product identifier

Trade name/designation Majestic Investment Powder - 2604900

EC No 238-878-4

REACH No. The substance does not require registration according to Regulation (EC) No 1907/2006 [REACH].

CAS No 14808-60-7

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture

Making Mold for casting non-ferrous metals for jewelry mold block technology and industrial products.

Uses advised against

There are no uses advised against.

1.3 Details of the supplier of the safety data sheet

Supplier Information:

Gesswein

201 Hancock Ave., Bridgeport, CT 06605

Phone: 203-366-5400, FAX: 203-366-3953

email: info@gesswein.com, www.gesswein.com

1.4 Emergency telephone number

Emergency: CHEMTELL - 800-255-3924

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

STOT RE 1, H372

Hazard statements for health hazards

H372 Causes damage to organs (lung) through prolonged or repeated exposure (inhalation).

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP]

Hazard pictograms



GHS08

Signal word

Danger

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Hazard statements

H372 Causes damage to organs (lung) through prolonged or repeated exposure (inhalation).

Precautionary statements

P260 Do not breathe dust.
P284 Wear respiratory protection.
P314 Get medical advice/attention if you feel unwell.
P501 Dispose of contents/container in accordance with local regulations.

Additional information

Airborne respirable crystalline silica may be generated during the handling and use of the product. Prolonged and/or massive inhalation of respirable crystalline silica dust may cause fibrosis, commonly referred to as Silicosis. Principal systems of Silicosis are cough and breathlessness. Occupational exposure to respirable crystalline silica dust should be monitored and controlled.

2.3 Other hazards**Adverse human health effects and symptoms**

The mixture does not contain substances $\geq 0.1\%$ of substances that have endocrine disrupting properties according to Regulation (EC) No. 1907/2006, Article 59(1) or Regulation (EU) 2017/2100 or Regulation (EU) 2018/605.

Adverse environmental effects

The mixture does not contain substances $\geq 0.1\%$ of substances that have endocrine disrupting properties according to Regulation (EC) No. 1907/2006, Article 59(1) or Regulation (EU) 2017/2100 or Regulation (EU) 2018/605.

Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

SECTION 3: Composition / information on ingredients**3.1 Substances**

Substance name	Quartz (SiO ₂)
EC No	238-878-4
REACH No.	The substance does not require registration according to Regulation (EC) No 1907/2006 [REACH].
CAS No	14808-60-7

3.2 Mixtures

not applicable

SECTION 4: First aid measures**4.1 Description of first aid measures****General information**

When in doubt or if symptoms are observed, get medical advice.

Following inhalation

Remove person to fresh air and keep comfortable for breathing.
In case of dyspnea give oxygen.
If unconscious but breathing normally, place in recovery position and seek medical advice.
If not breathing, give artificial respiration.
In the event of symptoms refer for medical treatment.

Following skin contact

Take off contaminated clothing and wash it before reuse.
In case of contact with skin, rinse with soap and water.
In case of skin irritation, consult a physician.

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After eye contact

Remove contact lens.

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart.
In the event of persistent symptoms receive medical treatment.

Following ingestion

Rinse mouth thoroughly with water.

Do not induce vomiting without medical advice.

Never give anything by mouth to an unconscious person or a person with cramps.

Maintain an open airway.

Consult a doctor.

Self-protection of the first aider

First aider: Pay attention to self-protection!

4.2 Most important symptoms and effects, both acute and delayed

Symptoms

Eye irritation

Skin irritation

4.3 Indication of any immediate medical attention and special treatment needed

Notes for the doctor

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

No specific extinguishing media is needed.

Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media

None known.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Product is not inflammable

In case of fire, dangerous combustion gases and vapours may be generated.

5.3 Advice for firefighters

Special protective equipment for firefighters

Cool endangered containers with water spray and possibly remove them from fire site.

Keep people away and stay on the windward side.

In case of fire: Wear self-contained breathing apparatus.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Dispose of contaminated extinguishant water according to official regulations.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Avoid skin and eye contact.
Do not breathe dust.
Avoid dust formation.
Wear protective equipment (see section 8).
Keep away unprotected persons.
Evacuate the accident area.

For emergency responders

Keep people away and stay on the upwind side.
Personal protection equipment

6.2 Environmental precautions

Do not allow to enter into surface water or drains.
Inform competent authorities in case of leakage to sewage system/surface water/ground water.

6.3 Methods and material for containment and cleaning up

For containment

If there is a risk of entry into the sewerage system, erect barriers and/or cover the sewerage system.

For cleaning up

Take up mechanically.
Avoid dust formation.
After taking up the material dispose according to regulation.

6.4 Reference to other sections

Emergency telephone number: see section 1
Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

Avoid skin and eye contact
Avoid dust formation.
Provide for appropriate ventilation/aspiration at the work station.
The danger areas must be delimited and identified using relevant warning and safety signs.

Advices on general occupational hygiene

Please observe work hygiene regulations.
Wash hands before breaks and after work.
Take off contaminated clothing and wash it before reuse.
When using do not eat, drink, smoke.
Keep away from food and drink.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place.
Keep/Store only in original container.

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Materials to avoid

none

Further information on storage conditions

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Keep away from food, drink and animal feedingstuffs.

Follow the instructions on the label.

7.3 Specific end use(s)**Recommendation**

See section 1.2

SECTION 8: Exposure controls/personal protection**8.1 Control parameters**

No data available

8.2 Exposure controls**Appropriate engineering controls****Remark**

Technical measures and the application of suitable work processes have priority over personal protection equipment.

Technical measures to prevent exposure

Sufficient ventilation and exhaustion.

Personal protection equipment**Eye/face protection**

In case of dust formation it is recommended to wear protective goggles.

Safety spectacles (EN 166)

Hand protection

Appropriate protection (e.g. gloves, barrier cream) is recommended for employees who suffer from dermatitis or sensitive skin.

Glove material specification [make/type, thickness, permeation time/wearing time, wetting resistance]: nitrile rubber, >0,11 mm, > 480 min.

The selected protective gloves must be in compliance with the specifications of EU Directive 89/686/EEC and the resultant standard EN 374.

The exact breakthrough time of the glove material is to be inquired from the protection glove manufacturer and must be strictly adhered to.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Body protection:

Protective clothing shall be chosen with respect to the function/activity and the possible exposure.

EN ISO 13982

Respiratory protection

Respiratory protection necessary at:

exceeding exposure limit values

insufficient ventilation

Recommended filter type:

FFP3 (EN 149)

In case of prolonged exposure:

Ventilator filtering device (EN 147)

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Environmental exposure controls**Remark**

Avoid creating dusty conditions and prevent windblown dust and dust emissions.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties****Physical state**solid
Powder**Colour**

white

Odour

odourless

Safety relevant basis data

	Value	Method	Source, Remark
Odour threshold:	not determined		
Melting point/freezing point	not determined		
Boiling point or initial boiling point and boiling range	not determined		
flammability			Not flammable
Lower and upper explosion limit	not determined		
Flash point	not determined		
Auto-ignition temperature	not determined		
Decomposition temperature	not determined		
pH	6- 8		
Viscosity	not determined		
Solubility(ies)	Water solubility		insoluble
Partition coefficient n-octanol/water (log value)	not determined		
Vapour pressure	not determined		
Density and/or relative density	2.6505 g/cm ³		
Relative vapour density			not relevant
particle characteristics	not determined		

9.2 Other information**Information with regard to physical hazard classes****Oxidising solids****Safety characteristics**

	Value	Method, Result	Source, Remark
			not applicable

Other safety characteristics

	Value	Method	Source, Remark
Explosive properties			not explosive
Oxidising properties			not oxidizing

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SECTION 10: Stability and reactivity**10.1 Reactivity**

The product is non-reactive under the recommended storage, use and temperature conditions.

10.2 Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4 Conditions to avoid

Avoid dust accumulation.

10.5 Incompatible materials

None if used as intended.

10.6 Hazardous decomposition products

No risk of production of decomposition products when appropriately handled and stored.

SECTION 11: Toxicological information**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity****Animal data**

	Effective dose	Method,Evaluation	Source, Remark
Acute oral toxicity	ATEmix > 2000 mg/kg		
Acute dermal toxicity	ATEmix > 2000 mg/kg		
Acute inhalation toxicity	Acute inhalation toxicity (gas) ATEmix > 5 mg/L		

Assessment/classification

Based on available data, the classification criteria are not met.

Skin corrosion/irritation**Assessment/classification**

Based on available data, the classification criteria are not met.

Serious eye damage/irritation**Assessment/classification**

Based on available data, the classification criteria are not met.

Sensitisation to the respiratory tract**Assessment/classification**

Based on available data, the classification criteria are not met.

Skin sensitisation**Assessment/classification**

Based on available data, the classification criteria are not met.

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Germ cell mutagenicity

not determined

Carcinogenicity

not determined

Reproductive toxicity

not determined

Overall Assessment on CMR properties

Based on available data, the classification criteria are not met.

STOT-single exposure

STOT SE 1 and 2

Assessment/classification

Based on available data, the classification criteria are not met.

STOT SE 3

Irritation to respiratory tract

Assessment/classification

Based on available data, the classification criteria are not met.

Narcotic effects

Assessment/classification

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Practical experience/human evidence

Long-term inhalation of quartz dust can cause silicosis. There is sufficient evidence that people suffering from silicosis have an increased risk of developing lung cancer.

Assessment/classification

Causes damage to organs (lung) through prolonged or repeated exposure (inhalation).

Aspiration hazard

Assessment/classification

Based on available data, the classification criteria are not met.

11.2 Information on other hazards

Information on other hazards

	Effective dose	Method,Evaluation	Source, Remark
Endocrine disrupting properties			No data available.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

	Effective dose	Method,Evaluation	Source, Remark
Acute (short-term) fish toxicity	not determined		
Chronic (long-term) fish toxicity	not determined		
Acute (short-term) toxicity to crustacea	not determined		

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	Effective dose	Method,Evaluation	Source, Remark
Chronic (long-term) toxicity to aquatic invertebrate	not determined		
Acute (short-term) toxicity to algae and cyanobacteria	not determined		
Chronic (long-term) toxicity to aquatic algae and cyanobacteria	not determined		
Toxicity to other aquatic plants/organisms	not determined		
Toxicity to microorganisms	not determined		

Assessment/classification

Based on available data, the classification criteria are not met.

12.2 Persistence and degradability**Assessment/classification**

No data available

12.3 Bioaccumulative potential**Assessment/classification**

No data available

12.4 Mobility in soil**Assessment/classification**

not relevant

12.5 Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

12.6 Endocrine disrupting properties

	Effective dose	Method,Evaluation	Source, Remark
Endocrine disrupting properties			No data available.

12.7 Other adverse effects**Additional ecotoxicological information****Additional information**

Do not allow uncontrolled discharge of product into the environment.

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Appropriate disposal / Product**

Dispose of waste according to applicable legislation.

Appropriate disposal / Package

Dispose of waste according to applicable legislation.

Remark

The waste code must be allocated in compliance with the EAK-regulation referring to the specific process and the sector.

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SECTION 14: Transport information

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN number or ID number	-	-	-
14.2 UN proper shipping name	-	-	-
14.3 Transport hazard class(es)	-	-	-
14.4 Packing group	-	-	-
14.5 Environmental hazards	-	-	-

14.6 Special precautions for user

No data available

14.7 Maritime transport in bulk according to IMO instruments

not applicable

All transport carriers

No dangerous goods as defined by the transport regulations - ADR/RID, IMDG, ICAO/IATA-DGR.

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****Other regulations (EU)****Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive] VOC**

VOC-value 0 g/L

15.2 Chemical Safety Assessment**National regulations**

A material safety assessment was not conducted.

SECTION 16: Other information**Abbreviations and acronyms**

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

STOT RE 1: Specific target organ toxicity (repeated exposure), Category 1

Key literature references and sources for data

ECHA (European Chemical Agency)

Subcontractors' data sheet.

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

The product is to be produced on the basis of the available hazard data of the ingredients, as defined in the classification criteria for mixtures for each hazard class in Annex I to Regulation (EC) No 1272/2008, classified.

Classification method:

Calculation

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Additional information

Adhere to existing national and local rules referring to chemicals.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

Relevant H- and EUH-phrases (Number and full text)

H372 Causes damage to organs through prolonged or repeated exposure.

Safety Data Sheet

According To Regulation (EC) No 1907/2006 (REACH),
(EC) No. 1272/2008 (CLP)

G-Cast Majestic Binder

Version: 3.0
Form No: 152003

Prep Date: 01.03.2023
Rev. Date: 01.03.2023

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier

Name of Product	G-Cast Majestic Binder, 2604900, 2604901
SDS ¹ Form No	152003
Product Description	Inorganic salt

1.2 Relevant Identified Uses Of The Product And Uses Advised Against

Relevant Identified Uses	Making Mold for casting non-ferrous metals for jewelry mold block technology and industrial products
Uses Advised Against	There are no uses advised against.

1.3 Details Of The Supplier The Safety Data Sheet

Manufacturer/ Supplier	Gesswein
Address	201 Hancock Ave. Bridgeport, CT 06605, USA
Telephone	203-366-5400
E-mail Address of Competent Person Responsible for the SDS	info@gesswein.com

1.4 Emergency Telephone Number

CHEMTELL - 800-255-3924

2. HAZARDS IDENTIFICATION

2.1 Classification Of The Product

2.1.1 Classification According to Regulation (EC) No 1272/2008

- This product is classified as hazardous according to regulation (EC) 1272/2008 [CLP/GHS].
- Eye Dam. 1; H318

2.2 Label elements

2.2.1. Labeling According to Regulation (EC) No 1272/2008 [CLP²/GHS³]

Product Identifier	
Hazard Component for Labeling	
	<ul style="list-style-type: none"> · Orthophosphoric acid

Safety Data Sheet

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Hazard Pictograms

· GHS05



Signal Word

Hazard Statements

H318 Causes serious eye damage

Precautionary Statements

General

-

Prevention

P234 Keep only in original container.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P321 Specific treatment (see ... on this label)

P363 Wash contaminated clothing before reuse.

Storage

P405 Store locked up.

Disposal

P501 Dispose of contents/container to in accordance with local/regional/national / international regulation

Supplemental Hazard Information (EU) Statements

No data available.

2.2.2. Additional Labeling

· Not Applicable

Safety Data Sheet

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2.3 Other Hazards

Substances/mixtures do not contain levels of 0.1 or higher of PBT (Persistent, bioaccumulative, and toxic)/ vPvB (very persistent and very bioaccumulative) according to Regulation (EC) No. 1907/2006, Annex XIII: None

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Description Of The Substances

- Mixture

CAS ⁴ No	EC ⁵ No	Name	Conc. %	Classification according to Regulation (EC) No 1278/2008 (CLP)
7664-38-2	231-633-2	Orthophosphoric acid	<80	·Eye Dam. 1; H318
7732-18-5	231-791-2	Water	<20	It is not classified as hazardous

3.2 Additional information

Specific Concentration limits: None

M-Factor: None

Notes: None

For explanation of abbreviations see section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

4.1.1 General notes

- When in doubt or if symptoms are observed, get medical advice.

4.1.2 Following inhalation

- If inhaled, remove to fresh air. If not breathing, give artificial respiration.
- In case of dyspnea give oxygen.
- If unconscious, place in recovery position and get medical attention immediately.
- Get medical attention.



4.1.3 Following skin contact

- Remove contaminated clothing. Immediately flush skin with large amounts of water for at least 15 minutes, and follow by washing with soap and water if available.
- Get medical attention if irritation persists.



4.1.4 Following eye contact

- Check for and remove any contact lenses.
- Rinse out with water for at least 15 minutes with the eyelid held wide open.
- Do not rub your eye.



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- Get medical attention if irritation persists.

4.1.5 Following ingestion

- Wash out mouth with water.
- Do not induce vomiting unless directed to do so by medical personnel.
- Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately.
- Maintain an open airway.
- Get medical attention.



4.1.6 Self-protection of the first aider

- First aid assistant: Pay attention to self-protection!

4.2. Most important symptoms and effects, both acute and delayed

- No acute and delayed symptoms and effects are observed.
Eye contact: It may cause eye irritation.
Inhalation: No data available
Skin contact: May cause a feeling of dryness in the skin.
Ingestion: No data available

4.3. Indication of any immediate medical attention and special treatment needed

- No specific actions are required.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media

- Use extinguishing measure that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

- None

5.2 Special hazards arising from the product.

- Noncombustible. No hazardous thermal decomposition.

5.3 Advice for fire-fighters

- No specific firefighting protection is required.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

- Use personal protective equipment
- Ensure adequate ventilation.
- No action shall be taken involving any personal risk or without suitable training.
- Evacuate personnel to safe areas.
- Refer to protective measures listed in section 7 and 8.
- Wear appropriate personal protective equipment as described in section 8.

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(EC) No. 1272/2008 (CLP)

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6.1.2. For emergency responders

- If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials.
- See also the information in "For non-emergency personnel".

6.2 Environmental precautions

- Do not empty into drains and sewers.
- Keep from entering to water and ground water systems.
- Spillages or uncontrolled discharges into watercourses must be alerted to the Environmental Agency or other appropriate regulatory body.

6.3 Methods and material for containment and cleaning up

6.3.1 For containment

- Control personal contact by using protective equipment as required
- Take up contaminated material and pass on for further processing.
- Contain for disposal according to local / national regulations.

6.3.2 For cleaning up

- Move containers from spill area.
- Avoid dust generation.
- Pick up mechanically and transfer to properly labelled containers.
- Place spilled material in a designated, labeled waste container.
- Dispose of via a licensed waste disposal contractor.
- Control personal contact by using protective equipment.

6.3.3 Other information

- Dispose of waste material according to local, state and federal regulations.

6.4 Reference to other sections

- See Section 1 for emergency contact information.
- See Section 8 for information on appropriate personal protective equipment.
- See Section 13 for additional waste treatment information.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

7.1.1 Protective measures

Personal preventions

- Advice on safe handling: Do not breathe vapors or spray mist.
- Avoid exceeding the given occupational exposure limits (see section 8).
- Avoid contact with skin and eyes.
- For personal protection see section 8.
- Smoking, eating and drinking should be prohibited in the application area.
- To avoid spills during handling keep bottle on a metal tray.
- Advice on protection against fire and explosion: Normal measures for preventive fire protection.

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- Hygiene measures: Avoid contact with skin, eyes and clothing. Remove contaminated clothing and protective equipment before entering eating areas.

7.1.2 Measures to Prevent Fire

- See section 5.

7.1.3 Measures to Protect Environment

- Dispose of waste material according to local, state and federal regulations.

7.1.4 Advice on general occupational hygiene

- Use good occupational work practice.
- Comply with the health and safety at work laws.
- Remove contaminated clothing and protective equipment before entering eating areas.

7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers: Store in original container. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
- Electrical installations / working materials must comply with the technological safety standards. Keep tightly closed.
- Keep in a dry, cool and well-ventilated place.
- Advice on common storage: Do not store near acids.
- Further information on storage stability: No decomposition if stored and applied as directed. STORAGE INCOMPATIBILITY
None

Advice on common storage

- See also instructions on the label.
- Store in a cool, dry, well-ventilated area.
- Keep away from food, drink and animal feeding stuffs.
- Store away from incompatible materials and foodstuff containers.

7.3 Specific end use(s)

- Keep container tightly closed. Keep container in a cool, well-ventilated area.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Preventive industrial and medical examinations must be carried out according to the application area. Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard.

Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.

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8.1.1 Occupational exposure limits

DNEL (Derived No-Effect Level) values

Substance Name	End Use	Exposure Routes	Potential Health Effects	Value
Phosphoric acid	Workers	Inhalation	Long term exposure Systemic effects	12.99 mg/m ³
Phosphoric acid	Consumers	Inhalation	Long term exposure Systemic effects	2.78 mg/m ³
Phosphoric acid	Consumers	Ingestion	Long term exposure Systemic effects	1.86 mg/kg

PNEC (Predicted No Effect Concentration) Values

Substance Name	Environmental Compartment	Value
Phosphoric acid	Fresh water	0.03 mg/ml
Phosphoric acid	Marine Water	0.003 mg/ml

8.2 Exposure controls

Adequate ventilation should be used during processing.

Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

8.2.1 Appropriate engineering controls:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

Ensure that eyewash stations and safety showers are proximal to the work-station location.

Keep away from food, drink and animal feeding stuffs.

Use personal protective equipment according to EN⁶ standards.

See Section 7

8.2.2 Individual protection measures, such as personal protective equipment

8.2.2.1 Eye / Face protection:

Eye wash bottle with pure water

Tightly fitting safety goggles

Wear face-shield and protective suit for abnormal processing problems.



8.2.2.2 Skin protection

Hand protection

- Appropriate protection (e.g. gloves, barrier cream) is recommended for employees who suffer from dermatitis or sensitive skin.



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<ul style="list-style-type: none"> Remarks: The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Polyvinyl alcohol or nitrile- butyl-rubber gloves The suitability for a specific workplace should be discussed with the producers of the protective gloves. 	
Body protection	
<ul style="list-style-type: none"> Impervious clothing Choose body protection according to the amount and concentration of the dangerous substance at the work place. 	
Other protection	
<ul style="list-style-type: none"> Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Prophylactic use of protective ointment (barrier cream) is recommended. 	
8.2.2.3 Respiratory protection	
<ul style="list-style-type: none"> No personal respiratory protective equipment normally required. 	
8.2.3 Environmental exposure controls	
<ul style="list-style-type: none"> Legislation for the protection of the environment must be met in full. Avoid wind dispersal. 	

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Form/Physical state	Liquid
Color	Colourless
Odor	Odorless
pH at (10,00 g/l, 20 °C)	2,2-2,4
Melting Point (°C)	No data available
Flash point (°C)	No data available
Flammable properties	Not flammable Does not ignite
Oxidising Properties	Not oxidizer
Explosive properties	Not explosive
Explosion limits, %	No data available
Vapor pressure, mmHg (15.5 °C)	No data available
Vapor density, (15-20 °C & 59-68 °F, Air: 1)	No data available
Autoignition point (°C)	No data available
Boiling Point (°C)	No data available
Density (g/cm ³) (20 °C)	1.45-1.49
Water Solubility (g/l) (20 °C)	1.000
Metal Corrosion Rate	Corrosive to metals
Viscosity (Cp)	No data available
Water adsorption	No data available

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Partition coefficient n-octanol/water	No data available
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9.2 Other Information

Other physical and chemical parameters

10. STABILITY AND REACTIVITY

10.1 Reactivity

- No dangerous reaction known under conditions of normal use

10.2 Chemical stability

- Stable under recommended storage and handling conditions.
- No decomposition is waited if stored normally.

10.3 Possibility of hazardous reactions

- Stable under recommended storage and handling conditions.
- No dangerous reaction known under conditions of normal use.
- No hazards to be specially mentioned.

10.4 Conditions to avoid:

- None

10.5 Incompatible materials:

- No data available

10.6 Hazardous decomposition products:

- No hazardous decomposition products are known.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

11.2 Acute toxicity

- Not classified based on available information.
- **Acute oral toxicity**
- LD50 (rat, female): > 2000 mg/kg
- Method: OECD Test Guideline 420
- GLP: Yes
- **Acute inhalation toxicity**
- LC50 (rat, male): > 5.1 mg/L
- Exposure time: 4 h
- Test atmosphere: dust/mist
- Method: OECD Test Guideline 403
- GLP: Yes
- **Acute dermal toxicity**
- LD50 (rat, female) :> 4640 mg/kg
- GLP: No
- The substance or mixture has no acute dermal toxicity

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11.3 Skin corrosion/irritation

- Not classified based on available information.
- Reconstructed human epidermis (RhE)/ Episkin Human Skin Model Test
- No skin irritation

11.4 Serious Eye damage/irritation

- Causes serious eye damage
- OECD Test Guideline 437
- Irreversible effects on the eye
- GLP: Yes

11.5 Respiratory or skin sensation

- Not classified based on available information.
- Does not cause skin sensitisation
- GLP: Yes

11.6 Reproductive toxicity

- Not classified based on available information.
- Test type: Genotoxicity Amest test
- Metabolic activation: Metabolic activation
- Method: OECD Test Guideline 471
- Result: Negative
- GLP: Yes
- In vitro tests did not show mutagenic effects

11.7 Germ cell mutagenicity

- Not classified based on available information.

11.8 Carcinogenicity

- Not classified based on available information.

11.9 Aspiration Hazard

- Not classified based on available information.

11.10 STOT-single/repeated exposures:

STOT-single exposure	Not classified based on available information.
STOT-repeated exposure	Not classified based on available information.

11.11 Additional Toxicological Information:

- Toxicological classifications are based on available knowledge and information
- The special effects to health are considered by taking into account the information in section 3.

12. ECOLOGICAL INFORMATION

12.1 Toxicity:

No data available

12.2 Persistence and degradability

Abiotic Degradation: No data available

Physical- and Photo-chemical elimination: No data available

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	Biodegradation: Not biodegradable. Product is of mineral origin., The solid matter content can be separated mechanically in a sewage plant.
12.3 Bioaccumulative potential	Partition coefficient n-octanol /water (log Kow): No data available Bioconcentration factor (BCF): No data available
12.4 Mobility in Soil	Solid Solubility in water: No data available Known or predicted distribution to environmental compartments: Surface tension: No data available Adsorption/Desorption: No data available
12.5 Results of PBT and vPvB assessment	According to Annex XIII of Regulation (EC) No.1907/2006 product is not fulfilling PBT (persistent/bioaccumulative/toxic)/vPvB (very persistent/very bioaccumulative) criteria
12.6 Other adverse effects	See the sections 6, 7, 13, 14 and 15.

13. DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

13.1.1 Product / Packaging disposal

- The generation of waste should be avoided or minimized wherever possible.
- Can be landfilled or incinerated.
- Note that properties of a material may change in use, and recycling or reuse may not always be appropriate
- When recycling of the product is not possible, disposal to landfill or incineration in accordance with all applicable government laws and regulations is recommended.
- Disposal according to local authority regulations.
- According to the European Waste Catalogue, waste codes are not product specific, but application specific. Waste codes should be assigned by the user.
- Contaminated packaging can be re-used after emptying and cleaning.

13.1.2 Waste Treatment-Relevant Information

- When in compliance with the Environmental Protection (Duty of Care) Regulations.

13.1.3 Sewage Disposal-Relevant Information

- None

13.1.4 Other Disposal Recommendations

- Dispose of chemicals waste or in accordance with local regulations.
- Follow all applicable local laws, rules and regulations regarding the proper disposal of this material.

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- If this product has been altered or contaminated with other hazardous materials, appropriate waste analysis may be necessary to determine proper method for disposal.
- Dispose of waste according to applicable local, state, and federal regulations.

14. TRANSPORT INFORMATION

	ADR ⁷ /RID ⁸	ADNR ⁹	IMDG ¹⁰	ICAO ¹¹ /IATA ¹²
TRANSPORTATION	Road	River	Marine	Airways
14.1 UN No.	1760	1760	1760	1760
14.2 Un Proper Shipping Name	UN 1760, CORROSIVE LIQUID, N.O.S., 8, III, 3 (E)			
Symbols				
HIN No	80	-	-	-
Tunnel Restriction Code	3 (E)	-	-	-
14.3 Transport Hazard Class	8	8	8	8
14.4 Classification code	C9	-	-	-
14.5 Packaging Group	III	III	III	III
14.6 Environmental Hazards	-	-	-	-
14.7 Special Precautions For Users	Not Available			
14.8 Transport in bulk according to Annex II of MARPOL and the IBC Code	Not Available			

15. REGULATORY INFORMATION

15.1 Safety, Health And Environmental Regulations / Legislation Specific For The Substance or Mixture

- Reach candidate list substances of very high concern (Article 59): Not listed
- List of substances subject to authorisation (REACH, Annex XIV)
- Restrictions according to REACH, Annex XVII : Not listed
- Regulation 1005/2009/EC on substances that deplete the ozone layer (ODS) : Not listed
- Regulation 850/2004/EC on persistent organic pollutants (POP): Not listed
- Regulation 649/2012/EU concerning the export and import of hazardous chemicals (PIC): Not listed
- Seveso Directive 2012/18/EU (Seveso III)
European parliament and of the council on the control of hazardous substances of very high major accident: Not assigned.

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15.1.1 HAZARD

CLP classification according to Annex VI of CLP (Regulation (EC) No 1272/2008)

INTERNATIONAL REGULATIONS

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006 (REACH) and ISO 11014:2009.

This product is classified according to EU Directive GHS/CLP.

European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR 2015)

15.2 Chemical Safety Assessment

No chemical safety assessment has been carried out for this substance/ mixture by the supplier. Substances are exempt from REACH Registration in accordance with Annex V7.

16. OTHER INFORMATION

16.1 Other information

- For additional information regarding products please contact the CERTUS ALÇI VE DÖKÜM TEKNOLOJİ SAN. A.Ş.
- The above information complies with the 1907/2006 Directives and their amendments.

16.2 Related Person

- AYANSAN CHEMICAL CONSULTANCY PLASTIC INC. AND TRD. LTD. CO.
- Prepared by
- Chemical Safety and Regulatory Affairs Consultant: MSc Burak AYAN
- burakayan@ayansan.com
- www.ayansan.com info@ayansan.com +90 (212) 485 50 59
- CERTUS ALÇI VE DÖKÜM TEKNOLOJİ SAN. A.Ş.
- chris@certus-int.com

16.3 Revision Date, Version and SDS no

- Date: March 1, 2023
- Version: 3.0
- SDS No: 152003

16.4 Reason of re-issue

- Compiling according to Regulation (EC) No 1272/2008

16.5 Relevant H- and EUH-phrases:

H318 Causes serious eye damage

16.6 Legal disclaimer

- The purpose of the above information is to describe the products only in terms of health and safety requirements.
- The information given should not, therefore, be construed as guaranteeing specific properties or as specification.

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- Customers should satisfy themselves as to the suitability and completeness of such information for their own particular use.
- The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication.
- The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.
- The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. Due to the many factors outside our control when using this product, we cannot accept liability for any injury, accident, loss or damage caused through its use.
- **Training:**
- Employees must be trained in the proper use and handling of this product as required under applicable regulations.

¹ SDS: Safety Data Sheet

² CLP: Classification Labelling and Packaging

³ GHS: Global Harmonised System

⁴ CAS : Chemical Abstract Service

⁵ EC : European Community number

⁶ EN Standards: Personal Protective Equipment Standards Determined by CEN (European Committee for Standardization)

⁷ ADR: Accord Dangereux Routier (European regulations concerning the international transport of dangerous goods by road)

⁸ RID: Regulations Concerning the International Transport of Dangerous Goods by Rail (European law)

⁹ ADN: Regulation for the Carriage of Dangerous Substances on the Rhine (EU)

¹⁰ IMDG: International Maritime Dangerous Goods (United Nations)

¹¹ ICAO: International Civil Aviation Organization

¹² IATA: International Air Transport Association