



SAFETY DATA SHEET

Regulation CE 1907/2006

Rev.: 005 of 17/04/23

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SECTION 1. Identification of the substance or mixture and of the company or venture.

1.1. Product's identifier.

Commercial name: **QFIRE**

Register number: -----

Others identification means.

Synonym: -----

1.2. Relevant identified uses of the substance or mix and not-advised uses.

Identified uses: Fire extinguishing powder for fires ABC and E (in the presence of electric current).

Not-advised uses: None known.

1.3. Supplier's information of the safety data sheet.

Supplier.

QUIMICA 21, S.L.

Polígono Industrial Puente Alto, Calle N, nº 2, 4 y 6

03300 Orihuela (Alicante) – SPAIN

Telephone: (+34) 966 742 380; (+34) 966 744 034

Fax: (+34) 966 742 372

Competent Technician : laboratorio@quimica21.es

1.4. Emergency telephone: 112

SECTION 2. Dangers' Identification.

2.1. Classification of the substance or mixture.

Classification according to regulation (CE) N° 1272/2008.

This mixture does not fulfil with the classification's criteria according to regulation (CE) N° 1272/2008.

Dangers' summary.

Physical dangers: It has not been classified for physical dangers.

Health hazards: It has not been classified for health hazards.

Environment dangers: It has not been classified for environment dangers.

Specific hazards: Powder may irritate the respiratory tract, skin and eyes. The prolonged and repeated overexposure to powders may lead to chronic bronchitis and chronic lung inflammation.

Main symptoms: Nose and throat irritation. Eyes and mucous membranes irritation.

2.2. Label elements.

Labelling according to Regulation (CE) N° 1272/2008.

Hazard pictograms: The mixture does not fulfil criteria for its classification.

Warning words: N.A.

Danger indications: The mixture does not fulfil criteria for its classification.

Prudence advises:

Prevention: Respect the rules for proper handling of chemicals.

Intervention: Consult a doctor if feeling unwell.

Stockage: Keep away from incompatible materials.

Elimination: Eliminate waste and residues according with regulation issued by local authorities.

Additional information on the label.

None.

2.3. Others dangers.

It is not a PBT or mPmB substance or mixture.

SECTION 3. Composition/information concerning components.

3.2. MIXTURES.

<u>Usual Chemical Name</u>	<u>%</u>	<u>CAS Number</u>	<u>N° EINECS</u>	<u>N° REACH</u>
Phosphate	90-10	7722-76-1/7783-28-0	231-764-5/231-987-8	01-2119488166-29/01-2119490974-22

Substance's classification according to Regulation (CE) N° 1272/2008.

None classified mPmB's substance.

<u>Usual Chemical Name</u>	<u>%</u>	<u>CAS Number</u>	<u>N° EINECS</u>	<u>N° REACH</u>
Sulphate	90-10	7783-20-2	231-984-1	01-2119455044-46

Substance's classification according to Regulation (CE) N° 1272/2008.

None classified mPmB's substance.

Commentaries about components: All the concentrations are expressed in percent by mass.



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SECTION 4. First Aids.

4.1. Description of first aids.

General indication.

In case of accident or discomfort call for a doctor and in case of unconsciousness do not provide anything orally.

On inhalation.

In case of extinguishing powder release there may appear some annoyances such as coughs or sneezes.

Eventually bring the person outdoors.

On contact with eyes.

Possible troubles due to foreign bodies.

Wash the open eyelid thoroughly with plenty of water.

In case of persistent troubles, contact the oculist.

On contact with skin.

Wash with water and soap.

On ingestion.

Thoroughly wash the mouth and drink water. Request medical assistance if necessary.

4.2. Main symptoms and effects, acute and delayed.

Nose and throat irritation. Eyes and mucous membranes irritation. Cough.

4.3. Indication of all medical cares and special treatments that should be given immediately.

Bring all the general support measures and for symptomatic treatment.

SECTION 5. Fire fighting measures.

5.1. Extinguishing measures.

Proper extinguishing measures.

No specific measure is required since this product is an extinguishing agent.

Not appropriate extinguishing measures.

N.A.

5.2. Special dangers due to the substance or the mixture.

Low risk. The product should not be inhaled either its by-products in decomposition.

5.3. Advices for the fire-fighting staff.

Special protective equipment for fire-fighting staff.

In case of fire, wear self-contained breathing apparatus and full protective clothing.

Special operating processes for fire-fighting.

No special measure.

SECTION 6. Measures in case of accidental spillage.

6.1. Personal cares, protective equipment and emergency procedures.

For the staff not included in emergency services.

Avoid powder inhalation and the contact with skin and eyes.

For the emergency staff.

Personal protection equipment is to be wore: anti-powder face mask.

Remove to a distance any incompatible material: alkaline compounds and caustic products.

6.2. Precautions concerning the environment.

Avoid contamination of drainages channels, superficial waters and ground waters.

6.3. Methods and materials for containment and cleaning.

Gather mechanically and put into an adequate recipient. Remove residues with adsorbent material.

6.4. Reference to other sections.

For information about removal, see section 13.

For information about individual protection, see section 8.

SECTION 7. Handling and storage.

7.1. Precautions for a safe handling.

Local or general ventilation.

Handle with care avoiding dust generation in suspension.

Avoid powder inhalation and contact with skin and eyes.

Use proper protective personal equipment.

Wash your hands after each use.



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7.2. Safe storage conditions, including possible incompatibilities.

Keep, if possible, in the original packing and closed.

Keep in a dry place and at ambient temperature.

Avoid accumulation of electrostatic charges.

Keep away from alkali compounds.

7.3. Specific final uses.

Fire extinguishing powder for fires ABC and E (in the presence of electric current).

SECTION 8. Exposition controls/ individual protection.

8.1. Control parameters.

Exposure limit values.

No specific TLV has been established for the product. Following data can be applied as a guide:

TLV/TWA: 10 mg/m³, total powder (ACGIH ^92/^93)

STEL: N.D.

PEL: N.D.

Recommended control methods.

Follow the standard monitoring procedures.

8.2. Expositions controls.

Proper technical controls.

Provide adequate ventilation if there is risk of dust formation during handling.

Observe the occupational exposure limits and reduce the risk of exposure to a minimum.

Individual protective measures, such as personal protective equipment.

Eyes and face protection.

Use security glasses whether closed or with side protection.

Skin protection.

Hands protection: Use working gloves, according to EN374.

Others: Use adequate protective clothes.

Respiratory protection.

In case that limits concerning working place are exceeded, to use face-masks with particles filter (type P2).

Take into consideration national regulations.

Thermic dangers.

Use thermic protective clothes if considered necessary.

Hygiene measures.

Wash working clothes and protective equipment regularly.

Must be observed all medical control requirements.

Environmental exposure control.

See section 6.

SECTION 9. Physical and chemical properties.

9.1. Information about basic physical and chemical properties.

Physical condition: Solid.

Form: Fine powder.

Colour: Varied.

Odour: Odourless.

Olfactory threshold: N.D.

pH: (1% aqueous) 4.4-6.0.

Melting point/freezing point: N.D.

Initial boiling point and boiling gap: N.D.

Flash Point: N.A.

Evaporation rate: N.A.

Inflammability (solid, gas): N.A.

Inflammability and explosive upper and lower limits: N.A.

Steam pressure: N.A.

Steam density: N.A.

Relative density: 1.65-1.85.

Solubility (ies): N.A.

Solubility in water: The mixture is not soluble or miscible with water or any other solvent.



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Distribution coefficient n- octanol/water: N.A.

Self-ignition temperature: N.A.

Decomposition temperature: 190 °C (374° F).

Viscosity: N.A.

Combustive properties: N.A.

Particle characteristics: 63 µ

9.2. Other data.

There is no additional relevant information.

SECTION 10. Stability and reactivity.

10.1. Reactivity.

The product is stable and no-reactive under normal use conditions, storage and transport.

10.2. Chemical stability.

Stable under normal temperature and pressure (see section 9).

10.3. Possibility of dangerous reactions.

The dangerous polymerizing does not happen.

10.4. Conditions to be avoided.

From 190° C it loses ammonia molecules finally providing phosphorus pentoxide.

10.5. Incompatibles materials.

It may release ammonia when in contact with alkali compounds.

Avoid contact with strong oxidising agents.

Aluminium: may corrode it.

Lead: may corrode it.

Magnesium: may release ammonia.

Methylamine: releases formaldehyde, highly toxic.

Sodium hypochlorite (bleach): decomposes on contact with toxic gases.

Steel: may corrode it.

Nitrite salts: violent explosion if melted.

Potassium chlorate: violent reaction.

10.6. Hazardous decomposition products.

Ammonia.

SECTION 11. Toxicological information.

11.1. Information about different risk defined on Regulation (CE) n. 1272/2008

Acute toxicity: It may cause skin and eyes irritation.

Irritation or skin corrosion: In view of the available data, the classification rules are not accomplish.

Serious eyes injury or eye irritation: In view of the available data, the classification rules are not accomplish.

Respiratory or skin sensitization: In view of the available data, the classification rules are not accomplish.

Germ cell mutagenicity: In view of the available data, the classification rules are not accomplish.

Carcinogenicity: In view of the available data, the classification rules are not accomplish.

Toxicity for reproduction: In view of the available data, the classification rules are not accomplish.

Specific toxicity in certain organs (STOT) - single exposure: In view of the available data, the classification rules are not accomplish.

Specific toxicity in certain organs (STOT) - repeated exposure: In view of the available data, the classification rules are not accomplish.

Danger by inhalation: In view of the available data, the classification rules are not accomplish.

11.1.5. Information about possible exposition ways.

Ingestion.

Under normal use conditions, this material is harmless for health.

However, the accidental ingestion of the product may cause discomfort.

Inhalation.

No irreversible alterations either evidences of silicosis have been observed after performing tests concerning the possibility of chronic toxicity by inhalation (see section 8).

Cutaneous exposure: Slightly irritant.

Ocular exposure : Slightly irritant.



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11.1.6. Symptoms related with physical, chemical and toxicological characteristics.

No silicosis or other respiratory tract diseases have been observed, specific to the product, in its handling.

11.1.7. Delayed and immediate effects, as well as chronic effects due to a short and long term exposition.

It has not been observed any negative effect.

11.1.8. Interactive effects: N.D.

11.1.9. Absence of specific data: N.A.

11.1.10. Mixtures: N.A.

11.1.11. Information about the mixture regarding the substance: N.D.

11.2. Information about other risks

11.2.2. Other data.

Previous cutaneous and respiratory disorders, including dermatitis, asthma and chronic lung diseases, may worsen if exposed.

SECTION 12. Ecological information.

12.1. Toxicity.

Eco toxicity test EC₅₀ after 15' (mg/ml): Photobacterium Phosphoreum
34800 < EC₅₀ < 54200

12.2. Persistence and degradability: N.D.

12.3. Bioaccumulation potential: N.A.

12.4. Mobility on ground: N.D.

12.5. Results of PBT and mPmB assessment: N. A.

12.6. Properties of endocrine disruptions: N. A.

12.7. Other negative effects.

The product is not classified as dangerous for environment. Nevertheless, this does not exclude the possibility that great or repeated spillages may have harmful effects for environment.

Aquatic toxicity.

Acute toxicity in fishes: NOEC (96h) \geq 500000 mg/L (bibliography).

Acute toxicity in Daphnias: NOEC (24h) \geq 500000 mg/L (bibliography).

Destruction of the ozone layer: N.A.

Photochemical ozone formation potential: N.A.

Global warming potential: N.A.

SECTION 13. Disposal considerations.

13.1. Methods for waste treatment.

Product.

It can be stored in controlled waste disposals, observing necessary technical requirements, after consulting with competent authorities.

Packaging.

It can be stored with household waste, or deposit in approved containers for its recycling.

European waste list: 160509.

Waste codes must be assigned by the user based on the application for which the product is employed. Follow Community, national, regional or local regulations in force.

SECTION 14. Transport information.

14.1. ONU number: not assigned.

14.2. Official transport appointment of United Nations: N.D.

14.3. Class (s) of dangers for transport: N.D.

14.4. Packing group: none.

14.5. Environmental hazards: See section 12.

14.6. Special precautions for users: See section 7.

14.7. Bulk Sea freight according to the instruments of the OMI: N.A.

Road and rail transport.

TPC/TPF: not restricted.

ADR/RID: not restricted.

Maritime transport.

IMDG/IMO: not restricted.

Air transport.



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ICAO/IATA: not restricted.
Inland waterway transport.
ADN: not restricted.

SECTION 15. Regulatory information.

15.1. Regulation and legislation concerning security, health and environment specific for the substance or mixture.

Based on the data we own, it is not a dangerous substance according to Regulation (CE) N° 1272/2008.

National disposition .

Hazard Symbols: N. A.

Risk Phrases: N. A.

Safety Phrases: N. A.

Water Law: The discharge of wastewater containing phosphorus is regulated by law.

15.2. Chemical safety assessment.

No one chemical safety assessment has been carried out.

Other regulations.

This Safety Data Sheet fulfils the requirements of the Directive (CE) N° 1907/2006, the regulation (UE) n° 453/2010, regulation (UE) n° 830/2015 and regulation (UE) n° 878/2020.

SECTION 16. Other data.

Issue date: 24/10/2011.

Revision date: 17/04/2023, modifying the sections 9,11,12,14 and 16 according to regulation (UE) n° 878/2020.

Abbreviations list.

N.A.: not applicable.

N.D.: undefined.

PBT: Persistent, bio-accumulative and toxic.

mPmB: Very persistent and very bio-accumulative.

References.

None.

Information about the assessment method used for the classification of the mixture.

The classification of the dangers for health and environment has been achieved using a combination of calculation methods and, when necessary, tests data.

The complete text of the warnings which does not appear in sections 2 to 15.

None.

Information about formation.

Follow instructions detailed in this data sheet / safety data sheet when using this material.

All the information shown in this document is, according to the Company's knowledge, true and correct

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