



## MATERIAL SAFETY DATA SHEET (MSDS) (91/155/CEE; 93/112/CEE)

### RADIKAL-40 BLUE

Update 3 of 20/05/05  
Replace the update 2 of 17/12/04

#### 1. Product identification

##### **RADIKAL-40 BLUE**

Dry chemical powder for fire extinguishers AB and C

##### *Company:*

CHACÓN E HIJOS, TROQUELADOS, S.A.

Cno. Los Pinos, 39

30570 Beniaján

MURCIA (Spain)

Tlph +34-968 821 188

Fax +34-968 824 742

Emergency information +34-968 821 188

#### 2. Composition/ information on ingredients

<u>Chemical common name</u>	<u>Nº de CAS</u>
Monoammonium phosphate monobasic	7722-76-1
Ammonium sulphate	7783-20-2
Amorphous silica	68611-44-9
Polymethylhidrogensiloxane	72319-10-9
Blue pigment	147-14-8

#### 3. Hazards identification

Some ingredients are classified as "nuisance dust". As with any dusts,

#### 4. First aids measures

##### *Inhalation:*

Remove to fresh air.

##### *Eye contact:*

Flush eyes with plenty of water. If trouble persist, get medical attention.

##### *Skin contact:*

Flush skin with plenty of water and soap.

##### *Ingestion:*

Never induce vomiting. Rinse the mouth with water. If necessary, get medical attention.

#### 5. Fire fighting measures

This product is a fire extinguishing agent.

##### *Special information:*

Low risk. Must avoid inhalation of the product of decomposition.

#### 6. Accidental release measures

##### *Individual precautions:*

Personal Protective Equipment and Clothing must be used:

Keep out quickly any incompatible material: alkalis or caustics.

##### *Cleaning methods:*

Wipe off the powder and put in a suitable container.

#### 7. Handling and storage

##### *Handling:*

If necessary:

Local or generic ventilation,

Handle with care and avoid dust generation,

Avoid electrostatic charges accumulation

##### *Storage:*

Keep closed in the original container

Keep dry at ambient temperature

Keep apart of alkalis

Observe all local warnings and precautions for storage



## MATERIAL SAFETY DATA SHEET (MSDS) (91/155/CEE; 93/112/CEE)

### RADIKAL-40 BLUE

Update 3 of 20/05/05  
Replace the update 2 of 17/12/04

#### 8. Exposure controls/Personal protection

##### Exposure limits:

Non established specific TLV. As a guide:

TLV/TWA: 10 mg/m<sup>3</sup>

STEL: N.D.

PEL: N.D.

##### Respiratory protection:

For conditions of use where exposure to the dust or mist is over the limits, a half-face dust respirator may be worn.

##### Skin and hands protection:

Make use of gloves

Make use of shirt

Make use of work-boots

##### Eye protection:

Use chemical safety goggles.

#### 9. Physical and chemical properties

Appearance: blue free flow powder

Odour: odourless

pH value: (0.1% aq) 4.5-6.0

Boiling point: up to 190°C

Melting point: >190°C

Flash point: N.A.

Flammability: N.A.

Relative density: 1.65-1.85

Solubility: non soluble in water

Thermal decomposition: 190°C

Apparent density: 0.85-0.98 g/cm<sup>3</sup>

Vapour pressure: N.A.

Evaporation rate: N.A.

#### 10. Stability and reactivity

##### Conditions to avoid:

From 190° begin to loss ammonia forming phosphorous pentoxide.

##### Stability:

Stable at normal temperature and pressure( see section 9)

##### Material to avoid:

Alkalis

Strong oxidizing agents.

Aluminium.

Lead

Magnesium

Methaneamine

Sodium hypochlorite

Steel

Nitric salts

Potassium chlorate

##### Hazardous decomposition products:

Ammonia.

#### 11. Toxicological information

##### Powdery material.

##### Primary irritating effect:

Skin irritation

Irritating minor.

Mucous irritation



## MATERIAL SAFETY DATA SHEET (MSDS) (91/155/CEE; 93/112/CEE)

### RADIKAL-40 BLUE

Update 3 of 20/05/05  
Replace the update 2 of 17/12/04

Irritating of eyes

*Human experiences:*

There is no evidences of silicosis or another illness of the respiratory tract.

*Test in the long run:*

No negative effect found

#### 12. Ecological information

*Biodegradability:*

N.A.

*Ecotoxicity test*  $EC_{50}$  at 15' (*Equitox*/m<sup>3</sup>): Photobacterium Phosphoreum

$EC_{50}=18.5$  *Equitox*/m<sup>3</sup>

*Aquatic toxicity:*

Fish severe toxicity : NOEC (96h)  $\geq 500000$  mg/L (bibliography)

Daphnia severe toxicity: NOEC (24h)  $\geq 500000$  mg/L (bibliography)

#### 13. Disposal considerations

*Product::*

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

*Packaging:*

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

#### 14. Transport information

*UN number:* not assigned

*Packing group:* none

*Overland transport:*

*TPC/TPF:* not restricted

*ADR/RID:* not restricted

*Transport by sea:*

*IMDG/IMO:* not restricted

*Air transport:*

*ICAO/IATA:* not restricted

#### 15. Regulatory information

*Risks symbol:* N.A.

*Risks phrases:* N.A.

*Security phrases:* N.A.

#### 16. Other information

*Applications of the product:*

Must be used only and exclusively as fire extinguishing media for A, B and C fires.

The information which appears in this document is, according to our knowledge, actual, true and right, but any of the recommendations or suggestion here described are out of any guarantee, since the conditions of product handling are out of our control. Besides, Chacón E Hijos Troquelados, S.A. does not assume the responsibility that the contents of this sheet can be interpreted as a recommendation for the handling of any product violating the Law, security practice or patents in vigour on any matter or its use.