

# OPAL

## 1 - Identification of the substance

**Commercial product name :**  
**OPAL**

**Company :**  
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## 2 - Hazard Identification

## 3 - Composition / Information on Ingredients

Component	CAS-no	EC-no	Percentage (%)	EC-label
Aluminium oxide	1344-28-1	215-691-6	≥ 10.0 - < 40.0	
Aluminium nitrate-9-water	7784-27-2	236-751-8	≥ 1.0 - < 5.0	O,Xi;R: 8 36/38
Water	7732-18-5	231-791-2		

## 4 - First-aid Measures

**Skin :** Remove residue substance as soon as possible from the skin (f.i. rinse with much water).

**Ingestion :** Let drink 1 or 2 glasses of water.  
 In case of general disorders call for a doctor.

**Inhalation :** Bring the victim into the fresh air

as soon as possible, let rest and if necessary call for a doctor.

**Eyes :** Rinse for a long time with much water. In case of eye-sight disturbances consult a doctor.

**Remarks first aid :** none.

## 5 - Fire Fighting Measures

**Fire-extinguisher :** Determined by surrounding.

**Unsuitable fire-extinguisher :** Not traceable.

**Special fire-fighting equipment :** In the event of fire, wear protective clothing and use breathing

apparatus that is independent of the ambient air..

**Hazardous decomposition products in fire :**

Nitrous oxides, aluminium oxides

## 6 - Accidental Release Measures

**Spillage procedure :** Absorb the liquid in appropriate absorbent (e.g. Powersorb, dry sand, diatomite, vermiculite etc.), shovel the mixture into

plastic bags and remove to the central depot for hazardous waste.

**Emergency procedure :** Not applicable.

## 7 - Handling And Storage

**Local exhausting :** Under normal circumstances not applicable.

**Storage conditions :** Store product in a closed

packaging, cool, dry, in a well ventilated area.

**Storage code (on behalf of PGS 15) :** None.

## 8 - Exposure Controls / Personal Protection

### Exposure limits :

applicable to : The Netherlands (20 °C ; 1013 mbar)

TWA(8 hours) :	10 mg/m <sup>3</sup>	Aluminium oxide
TWA(8 hours) :	2 mg/m <sup>3</sup>	Aluminium nitrate-9-water (as aluminium)
No TWA has been laid down.		Water

applicable to : Belgium (20 °C ; 1013 mbar)

TWA(8 hours) :	10 mg/m <sup>3</sup>	Aluminium oxide (as aluminium)
TWA(8 hours) :	2 mg/m <sup>3</sup>	Aluminium nitrate-9-water (as aluminium)

applicable to : Germany (20 °C ; 1013 mbar)

TWA(8 hours) :	3 mg/m <sup>3</sup>	Aluminium oxide
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applicable to : United States of America (25 °C ; 1013 mbar)

TWA(8 hours) :	10 mg/m <sup>3</sup>	Aluminium oxide
TWA(8 hours) :	2 mg/m <sup>3</sup>	Aluminium nitrate-9-water (as aluminium)

C=Ceiling; S=Skin

### Remarks exposure limits :

.....None.

### Odour threshold (20°C; 1013 mbar) :

..... Not traceable.

### DNEL (Derived No Effect Level) :

..... Not traceable.

### PNEC (Predicted No Effect Concentration) :

..... Not traceable.

### Advised personal protection :

- Hands : ..... Neoprene gloves.
- Eyes : ..... Safety goggles.
- Inhalation : None (when sufficient exhausting).
- Skin : ..... Protective clothing.

## 9 - Physical and Chemical Properties

**Physical state :** ..... Suspension.

**Colour :** ..... White.

**Odour :** ..... Odourless.

**Vapor rate/range :** ..... Not traceable.

**Boiling point/range :** .... ≥100 °C (1013 mbar).

**Melting point/range :** ..... ≤0 °C.

**Flash point/range :** ..... Not applicable.

**Explosive limits :** ..... Not applicable.

**Dust explosions possible in air:** .....  
Not applicable.

**Relative density :** ≥1.100 - ≤1.378 (Water=1) (20°C).

**Vapour pressure :** ..... 2.3 kPa (20 °C).

**Solubility in water :** ..... Partial.  
**Solubility in fat :** ..... Not traceable.  
**pH :** .....  $\geq 3.0 - \leq 4.0$   
**Viscosity :** ..... Not traceable.

**Autoignition temperature :** ..... Not applicable.  
**Decomposition temperature :** .... Not traceable.  
**Electrostatic charge :** ..... No.

## 10 - Stability and Reactivity

**Conditions to avoid :** ..... None.  
**Reactions with water :** ..... No.  
**Hazardous reactions with :**  
halogen compounds, fluorine, vinyl acetate,

ethylene oxide, nitrates, strong oxidizers.  
**Hazardous decomposition products at heating :**  
..... None.

## 11 - Toxicological Information

### SYMPTOMS

#### Skin

- Local : The substance is prickling : redness.
- General : Probably no absorption worth mentioning.

#### Ingestion

- Local : The substance is prickling: sore throat.
- General\* : The substance may be absorbed after ingestion.

#### Inhalation

- Local : The substance is with atomising prickling: sore throat.
- General\* : The substance may be absorbed after inhalation.

#### Eyes

- Local : The substance is prickling: redness.
- General : The fume may cause metal fume fever.

#### Toxicity :

- LD-50:  $>5$  g/kg (ORL-RAT), Aluminium oxide
  - LD-50: 3.67 g/kg (ORL-RAT), Aluminium nitrate-9-water
- Method : OECD 401.

Source : supplier

#### Ames test :

- Negative Aluminium oxide
- Source : IUCLID.

\* Remarks symptoms

## 12 - Ecological Information

#### Biological oxygen demand (5) :

..... Not traceable.

#### Chemical oxygen demand :

..... Not traceable.

#### Biological/chemical oxygen

**demand ratio :** ..... Not traceable.

**Degradability :** ..... Not traceable.

**Biochemical factor :** ..... Not traceable.

**Log Po/w :** ..... Not traceable.

**Henry constant :** ..... Not traceable.

#### Ecotoxicity :

LC-50:  $>100$  mg/l/96H (Fish),

Aluminium oxide.

Source : Supplier.

EC-50:  $>100$  mg/l/48H (Daphnia),

Aluminium oxide.

Source : Supplier.

IC-50:  $>100$  mg/l/72H (Algae),

Aluminium oxide.

Source : Supplier.

**Remarks on ecotoxicity :** ..... None.

## 13 - Disposal Considerations

Remainder material or uncleaned empty packagings have to be incinerated in a proper ins-

tallation or dumped on an approved landfill, in accordance with local and national legislation.

## 14 - Transport Information

Not subject to Transport-regulation Dangerous Substances.

## 15 - Regulatory Information

**EC-Label :** Not applicable.

**Remarks on EC-labeling :** Water Hazard Class (WGK) = 1

## 16 - Other Information

**Remarks on MSDS:** None.

**Overview relevant R-sentences from all components in section 3 :**

- 36/38 .....Irritating to eyes and skin.
- 8 .....Contact with combustible material may cause fire..