



ALUMINIUM  
MARTIGNY  
FRANCE  
BP 7  
38490 CHIMILIN

# ECREMAL N 44

## ECREMAL N 44 / G

SAFETY DATA SHEET  
ACCORDING TO  
REGULATION CE 1907/2006

### 1. IDENTIFICATION

Identification of the product	Trade name : ECREMAL N 44 – ECREMAL N 44 / G Application type : Foundry flux. Metal treatment of aluminium and its alloys. Manufacturer : ALUMINIUM MARTIGNY FRANCE
Identification of the Company	ALUMINIUM MARTIGNY FRANCE - Za de Poulatier - BP 7 - 38490 CHIMILIN Tel : + 33 4 76 32 50 15 – Fax : + 33 4 76 31 68 03 <b>Contact : pmarais.amf@wanadoo.fr</b>

### 2. DANGERS IDENTIFICATION

Environment	: Sodium silicofluoride contained in the product are dangerous for the environment and forms dangerous gases by thermal decomposition.
Inhalation	: Irritation of respiratory system. The inhalation of strong concentrations of dust may cause poisoning. When used, dangerous gases are formed by thermal decomposition.
Contact with skin	: A prolonged contact with the skin may cause serious lesions, being able to lead progressively to burns.
Contact with eyes	: Slight irritation of the eyes.
Ingestion	: The ingestion of significant quantity may cause poisoning.

### 3. CHEMICAL COMPOSITION OF THE MIXTURE

Mixture of alkaline chlorides, sulphates, calcium fluoride and:	
Sodium silicofluoride < 3 %	Sodium carbonate ≤ 10 %
Cas n° : 16893-85-9	Cas n° : 497-19-8
Einecs n° : 240-934-8	Einecs : 207-838-8
Classification : Toxic	Classification : Irritating
Substance risk : R 23/24/25	Substance risk : R 36

### 4. FIRST AID

Inhalation	: Expose the victim to fresh air. Seek medical advice if difficult breathing.
Contact with skin	: Wash promptly with plenty of water and soap. If irritation continues, seek medical advice.
Contact with eyes	: Wash out promptly with plenty of water during 15 mn. Seek medical advice.
Ingestion	: If the victim is conscious, allow water to be drunk. Do not induce vomiting. Bring the victim to hospital.

### 5. ACTION AGAINST FIRE

Flammability	: Not flammable.
Suitable extinguishing media	: Carbon dioxide, dry powder, dry sand.
Unsuitable extinguishing media	: Water.
Special risks	: Emissions of sulphur dioxide, hydrogen fluoride, tetra silicon fluoride (toxic and corrosive).
Safety device	: Use self- contained breathing apparatus.

### 6. ACTION IN CASE OF ACCIDENTAL DISPERSION

Individual precautions:	Wear protective clothes, gloves, goggles, shoes, (rubber), dust- mask. (see sections 7, 8, 16)
Precautions for the environmental protection:	Keep away from sewage area.
Cleaning method:	Collect the product in dry and waterproof packaging.

ECREMAL N 44 ECREMAL N 44 / G 15.03.11/RL	REVISION N° 0 du 23.02.11	PAGE	SHEET
	THIS SHEET CANCELS AND TAKES PLACE OF SHEET DATED : ---	1/3	A65

## 7. HANDLING AND STORING

Handling	Avoid formation dust. Prevent eyes and skin contacts (gloves and goggles). Wash contaminated work clothes. Use the product in ventilated atmosphere.
Storage	Keep away from moisture in a dry and ventilated area.

## 8. EXPOSURE CONTROL / INDIVIDUAL PROTECTION

Exposure control	Limiting values for exposure : Fluorides : VME : 2,5 mg/m <sup>3</sup> (expressed in fluor) Technical control: Ensure adequate exhaust ventilation at the object to maintain fluorides, sulphur dioxide or dusts below the limit levels. Sulphur dioxide : 2 ppm (VME) Sulphur dioxide : 5 ppm (VLE)
Individual protection	Breathing protection : Use an approved mask (P: dusts - or ABEK+P: gas emissions during thermal decomposition) if limit values are exceeded. Hands protection : Rubber gloves (thickness = 0,6 mm - penetrating time > 480 mn). Skin protection : Light protective clothing with long sleeves, rubber apron and safety boots (rubber). Other protection measures: Ocular shower and emergency shower near the work place.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Ecremal N 44	: Pink powder	Appearance Ecremal N 44 / G	: Pink granulars
pH in solution in water	: 8 – 11	Solubility in water	: Slight
Melting point	: Sodium fluosilicate decomposition between 350 and 500°C		
Specific weight Ecremal N 44:	≈ 1,2	Specific weight Ecremal N 44 / G :	≈ 1,1

## 10. STABILITY AND REACTIVITY

Chemical stability	: Stable.
Conditions to be avoided	: Moisture – Keep the product in a dry place.
Substances to be avoided	: Strong acids (hydrochloric, sulphuric, nitric, ...).
Dangerous decomposition products	: Hydrogen fluoride, sulphur dioxide, or tetra silicon fluoride emissions, toxic and corrosive, by chemical or thermal decomposition.

## 11. TOXICOLOGICAL INFORMATIONS

Contact with eyes	: Low irritating.
Contact with the skin:	LDL0 under skin rat: 70 mg/kg (sodium silicofluoride).
Ingestion	: DL 50 (sodium silicofluoride): 125 mg/kg oral rat.
Inhalation	: Nose and throat irritation: CL0, (≈ 6 h): 33 mg / m <sup>3</sup> (sodium silicofluoride). <i>Those values concern sodium fluosilicate contained in the product.</i>

## 12. ECOLOGICAL INFORMATIONS

Effects on the environment:	Not established, but sodium fluosilicate contained in this product are toxic for the foliage and can cause serious damage to plants.
Fluosilicate de sodium :	CL50, poisson (Leuciscus Idus), 48 heures : 190 mg/l.
Sodium carbonate :	CL50, 96h, lepomis macrochirus : 300 mg/l CE50, 48h, ceriodaphnia dubia 200/227 mg/l
<b>DO NOT DISCHARGE THE PRODUCT INTO THE ENVIRONMENT</b>	

ECREMAL N 44 ECREMAL N 44 / G 15.03.11/RL	REVISION N° 0 du 23.02.11	PAGE	SHEET
	THIS SHEET CANCELS AND TAKES PLACE OF SHEET DATED : ---	2/3	A65

### 13. OBSERVATIONS ON THE ELIMINATION

Methods of elimination: Contact a specialist in the disposal of industrial wastes.

Contaminated packaging: Idem as above.

Waste N° for ECREMAL N44 – N44/G : 160509

Waste N° for contaminated packaging : 150102

} (according to the European waste catalogue)

### 14. INFORMATIONS ON THE TRANSPORT

Product not subject to regulation on dangerous product transport

### 15. STATUTORY INFORMATIONS

Not concerned by labelling of dangerous material.

### 16. OTHER INFORMATIONS

Text for all phrases referred to in section 2 :

- R 36 : Irritating to eyes
- R 23/24/25: Toxic by inhalation in contact with skin and if swallowed.

The personal protective equipment must be in accordance with CEN standards :

- Respirator : CEN 136, 140, 143, 371
- Protective clothing : CEN 340, 465, 466, 467, 943
- Safety shoes : CEN 341, 345
- Safety glasses : CEN 166
- Gloves : CEN 374

### OBSERVATIONS :

This safety data sheet completes the technical data sheets, but does not take the place of them. The information contained in this safety data sheet are based on our knowledge about the concerned product at the date of publication. They are given in good faith. This safety data sheet does not constitute the user's own assessment of workplace risk. The user should conduct a full risk assessment in accordance with regulations. Users must satisfy themselves that the product is entirely suitable for their purposes. This list should not be considered as exhaustive and does not exempt user to be under others possible obligations, different from those of the safety data sheet, which would concerned holding and handling of the product, for which he remains alone responsible.

ECREMAL N 44 ECREMAL N 44 / G 15.03.11/RL	REVISION N° 0 du 23.02.11 THIS SHEET CANCELS AND TAKES PLACE OF SHEET DATED : ---	WRITTEN BY	CHECKED BY	PAGE	SHEET
				3/3	A65