



JOHN WINTER & CO LTD
ECOGAS 16
SAFETY DATA SHEET (SDS)



PRODUCT NAME: ECOGAS 16

Date SDS prepared	May 1995	Date SDS revised	26.8.09
This SDS supersedes all previous dates			

1. PRODUCT & COMPANY IDENTIFICATION

Trade Name: ECOGAS 16

Intended use: Aluminium Degassing Flux

Supplier: John Winter & Co Ltd

Address: PO Box 21, Washer Lane
Halifax, West Yorkshire
England HX2 7DP

Telephone: + 44 (0) 1422 364213
Fax: + 44 (0) 1422 330493

UK contact: Carol White – REACH Coordinator

Emergency Telephone Number: As above only available during office hours, outside office hours please contact your National Chemical number

Email address of SDS compiler: carol@johnwinter.co.uk

2. COMPOSITION / INFORMATION ON THE COMPONENTS

Description of preparation:

Substance	% by wt or range	EINECS Number	CAS Number	Classification
Sodium Fluorosilicate	1 – 9.99%		16893-85-9	R23/24/25
Calcium Carbonate	3 – 24.99%		1317-65-3	Not classified
Aluminium Powder	1 – 9.99%		7429-90-5	R15/10

3. HAZARD IDENTIFICATION

Main Hazards:

Harmful by inhalation, in contact with skin & if swallowed.

Health Effects – Eyes

Dust will cause conjunctivae irritation



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Health Effects – Skin

Material will cause irritation

Health Effects – Ingestion

Irritation of mouth, throat & digestive tract, systemic effects

Health Effects – Inhalation

Irritation of nose throat & respiratory tract, systemic effects

4. FIRST AID MEASURES

First Aid – Eyes

Immediately flood the eye with plenty of water for at least 10 minutes, holding the eye open. Obtain medical attention if soreness or redness persists.

First Aid – Skin

Immediately wash skin thoroughly with soap & water. Remove contaminated clothing as washing proceeds. Obtain medical attention if blistering occurs or redness persists.

First Aid – Ingestion

Irritation of mouth, throat & digestive tract, systemic effects

First Aid – Inhalation

Irritation of nose, throat & respiratory tract, systemic effects

5. FIRE FIGHTING MEASURES

Extinguishing media:

Use only dry fine soda ash or 'metal fire' extinguishers (containing metal chloride Ternary Eutectic compound). Dry sand may be used on small fires.

Unsuitable Extinguishing media:

Do not use water or foam

Special Hazards of Product:

This product may give rise to hazardous fumes in a fire (see section 10). Decomposition products may include hydrogen fluoride.

Protective Equipment for Fire-fighting:

Wear full protective clothing & self-contained breathing apparatus

6. ACCIDENTAL RELEASE MEASURES

Personal Protection:

Wear appropriate protective clothing



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Environmental Precautions:

Advise authorities if spillage has entered water course or sewer or has contaminated soil or vegetation.

Spillages:

Transfer into suitable containers for recovery or disposal. Avoid creating a dust. Finally flush area with plenty of water.

7. HANDLING & STORAGE

Handling:

Use in a well ventilated area. Avoid inhaling dust. Avoid contact with eyes, skin & clothing. Avoid contact with water or moist air. Keep container tightly closed when not in use.

Storage:

Storage area should be cool, dry, well ventilated & away from incompatible materials.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit:

- | | |
|--------------------------|---|
| 1. Sodium Fluorosilicate | UK EH40: OES 2.5 mg/m ³ 8h TWA (as F) |
| 2. Calcium Carbonate | Dust, total inhalable: UK EH40: OES 10 mg/m ³ 8h TWA |
| 3. Aluminium Powder | Dust, respirable: UK EH40: OES 4 mg/m ³ 8h TWA |
| | Dust, total inhalable: UK EH40: OES 10 mg/m ³ 8h TWA |
| | Dust, respirable: UK EH40: OES 5 mg/m ³ 8h TWA |

9. PHYSICAL & CHEMICAL PROPERTIES

Physical state (appearance)	tablets
Colour	black
Solubility in water (kg/m ³) & fat (kg/m ³)	partially soluble
Density (kg/m ³)	> 1000

10. STABILITY & REACTIVITY

Stability

Stable under normal conditions

Conditions to avoid

High temperature. Exposure to water or moisture

Materials to avoid

Acids, cyanides, metals, aluminium. Please refer to section 16, additional data for more information on this product.



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Hazardous Decomposition products:

Heating may produce toxic fluorine compounds, oxides of nitrogen

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:

LD50 prep calculated (oral rat) 2500 mg/kg

Irritancy – Eyes:

This material is an irritant to the eyes

Irritancy – Skin:

This material is irritating to skin

12. ECOLOGICAL INFORMATION

Mobility:

A major part of the product will dissolve slowly in water

13. DISPOSAL

Product Disposal

Dispose of in accordance with all applicable local & national regulations.

14. TRANSPORT INFORMATION

ADR/RID – description

Not classified for conveyance purposes

Quantity & size of containers: 12.5 kg boxes of 500 grams

15. REGULATORY INFORMATION

Labelling information:



Harmful

Not classified for safety

Not classified for environment

Preparation contains:

Sodium Fluorosilicate

Risk phrases:

R20/21/22

Harmful by inhalation, in contact with skin & if swallowed



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Safety phrases:

S36/37 Wear suitable protective clothing & gloves
S43 In case of fire, use 'metal' fire extinguishers. Never use water

S7/8 Keep container tightly closed & dry

16. OTHER INFORMATION

Uses & Restrictions:

Flux agent for casting

Additional data:

This material is reactive towards aluminium & contact should be avoided unless involved in application.

17. FURTHER INFORMATION

Details of changes to last version:

Formatting to Annex II REGULATION (EC) No 1907/2006

FOOTNOTE

The data contained in this SDS has been supplied as required by the Chemicals (Hazard Information & Packaging for Supply) Regulations 2002 (if applicable), or from 1 June 2007 and the EC REACH Regulation 1907/2006 for the purpose of protecting the health & safety of industrial and commercial users who are deemed capable of understanding and acting on the information provided.

LIABILITY

Such information above is, to the best of John Winter & Co Ltd knowledge and belief, accurate and reliable as of the indicated date. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy themselves as to the suitability and completeness of such information for their own particular use.

THIRD PARTY MATERIALS

Insofar as materials not manufactured or supplied by John Winter & Co Ltd are used in conjunction with, or instead of JW materials, it is the responsibility of the customer to obtain, from the manufacturer or supplier, all technical data and other relevant information relating to these materials. No liability can be accepted in respect of the use of JW materials in conjunction with other materials.

Please ensure that it is passed to the appropriate person(s) in your company, who are capable of acting on the information.

Conforms to all UK Legislation