

ROTHENBERGER (UK) LIMITED
2 Kingsthorpe Park, Henson Way,
Kettering Northants NN16 8PX
Telephone: 01536 310300
Fax: 01536 310600
Email: info@rothenberger.co.uk

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY

PRODUCT NAME : White Smoke Pellets (Various Part No.)

Address/Phone No. :

Emergency Phone No. :

2. COMPOSITION/INFORMATION ON INGREDIENTS

PRODUCT DESCRIPTION

A smoke generation pellet for the marking of air flows, for theatrical or special effects.

HAZARDOUS INGREDIENT(S)	CAS No.	%(w/w)	Symbol	R Phases
Potassium Chlorate	03811-04-9	12.0	O,Xn	R9 R20/22
Smoke			Xn	R22-36

3. HAZARDS IDENTIFICATION

Ignites readily, burns without flaming, giving dense white harmful smoke.
Harmful if swallowed.
Smoke irritating to eyes.

4. FIRST AID MEASURES

Inhalation of : In severe cases, remove patient from smoke exposure. If recovery is not rapid or complete seek medical attention.

The following apply to the unburned product.

Skin contact : Take off immediately all contaminated clothing. Wash skin with water, followed by soap and water. If large areas of the skin are effected, or if irritation arises seek medical attention.

WHITE SMOKE PELLETS (VARIOUS PART NO.)

4. FIRST AID MEASURES - CONT.

- Eye Contact : Immediately irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 15 minutes. Obtain medical attention.
- Ingestion : If swallowed, rinse mouth and drink immediately two or more glasses of water or milk. Seek medical attention and show this Data Sheet, if possible.

5. FIRE-FIGHTING MEASURES

Ignites readily.
Oxidising agent will assist combustion.
Keep fire exposed containers cool by spraying with water.

- Extinguishing Media : use large volumes of water as a spray or fog, avoid use of water jet. Contain run-off water with for example temporary earth barriers.
- Fire Fighting protective Equipment : A self contained breathing apparatus and full protective clothing must be worn in fire conditions.

6. ACCIDENTAL RELEASE MEASURES

No naked lights. No smoking.

Ensure suitable personal protection during removal of spillages. This means wearing eye protection, chemically resistant gloves, boots and coveralls. Transfer to a container for disposal. Wash the spillage area with water. Due to the potassium chlorate content, washings must be prevented from entering surface water or drains. When spillages or uncontrolled discharges into watercourses occur, the National Rivers Authority must be alerted.

7. HANDLING AND STORAGE

7.1 HANDLING

Read the instructions before use.
Do not breath smoke. Avoid contact with eyes and skin. Wash hands before meals and after work. When using do not eat, drink or smoke.

WHITE SMOKE PELLETS (VARIOUS PART NO.)

7.2 STORAGE

Keep away from food, drink and animal feeding stuffs, Keep out of reach of children, Keep in original container, tightly closed in a safe place, Keep away from heat and sources of ignition.

Store in a dry place.

Storage Life : Physically and chemically stable for at least 2 years when stored in the original unopened sales container at ambient temperatures.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

When using this product refer to the instructions for details.

Should it be necessary to enter a heavily smoke laden area, protective respiratory equipment and eye protection must be used (see HSE Guidance Booklet (HS) G 53: "Respiratory Protective Equipment - a practical guide for users").

Occupational Exposure Limits

HAZARDOUS INGREDIENT(S)	LTEL ppm	8hr TWA mg/m ³	STEL ppm	mg/m ³
Smoking agent	-	10	-	20

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Off-white coloured composition preformed into a pellet.
Odour	:	Odourless
pH	:	Not applicable
Boiling point	:	Not applicable
Melting point	:	Not applicable
Flash point	:	Does not flash
Autoflammability	:	>130°C
Explosive properties	:	Not applicable
Oxidising properties	:	Oxidising agent will assist combustion.
Vapour pressure	:	Not available
Relative density	:	Not available
Solubility(water)	:	Partially soluble
Partition coefficient	:	Not applicable

WHITE SMOKE PELLETS (VARIOUS PART NO.)

10. STABILITY AND REACTIVITY

Stability : Stable under normal conditions.
Hazardous reactions : Ignites readily.
Hazardous decomposition product(s): Combustion or thermal decomposition may evolve harmful vapours.

11. TOXICOLOGICAL INFORMATION

This health hazard assessment is based on information available on similar products.

Inhalation : Smoke irritating to respiratory tract.
Skin contact : Possible risk of skin irritation.
Eye Contact : Composition and combustion product may cause eye irritation.
Ingestion : Harmful if swallowed.

Lowest LD₅₀ of chemical constituents of composition 1260 mg/kg (Oral Rat).

12. ECOLOGICAL INFORMATION

Toxicity

This ecological assessment is calculated from data available on the components of the formulation.

Harmful to aquatic organisms.

Un-burned composition is non-selectively toxic to plants.

Not readily biodegradable.

13. DISPOSAL CONSIDERATIONS

Applies to unburned product.

Do not contaminate ponds, waterways or ditches with chemical. Dispose of product according to the requirements of the "Environmental Protection Act 1990". Empty containers should not be used for other purposes.

Disposal should be in accordance with local, state or national legislation.

WHITE SMOKE PELLETS (VARIOUS PART NO.)

14. TRANSPORT INFORMATION

UN No.	:	Not applicable
UN Pack Group	:	Not applicable
AIR		
ICAO/IATA Class.	:	
- primary	:	Not restricted
SEA		
IMDG Class.	:	
- primary	:	Non hazardous
Marine Pollutant	:	
Proper Shipping Name:	:	
ROAD/RAIL		
ADR/RID Class.	:	Not subject to the provision of ADR

15. REGULATORY INFORMATION

Users should ensure that they comply with any relevant local, state or national legislation.

EU Classification	:	HARMFUL
Hazard Symbol	:	Xn
Risk Phrases	:	R22 Harmful if swallowed. R36 Irritating to the eyes.
Safety Phrases	:	S2 Keep out of reach of children S13 Keep away from food, drink and animal feeding stuffs. S16 Keep away from sources of ignition - No smoking. S26 In case of contact with eyes rinse immediately with plenty of water and seek medical advice.
UK Regulatory Information	:	Health and Safety at Work act 1974 The Control of Substances Hazardous to Health Regulations 2002, may apply to this product.

WHITE SMOKE PELLETS (VARIOUS PART NO.)

16. OTHER INFORMATION

This data sheet was prepared in accordance with Directive 91/155/EEC.

The information on this sheet is not a specification. It does not guarantee specific properties. The information is intended to provide general guidance to health and safety based upon our knowledge of the handling, storage and use of the product. It is not applicable to unusual or non-standard uses of the product nor where instructions and recommendations are not followed.

Page 6

(Revision:05)

(Date:0499)

Page 6

(Revision:06)

(Date:0906)