

# Safety Data Sheet

# **Red Smoke Pellet**

#### IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY OR SECTION 1. **UNDERTAKING**

#### **Product Identifier**

Red Smoke Pellet 1.1. Tradename:

> Contains Potassium chlorate and 1-(Methylamino)anthraquinone

UFI: D110-X0YN-000J-AV5W

1.2. Relevant identified uses of the substance or mixture and uses advised against

A smoke generation pellet for the marking of airflows, for theatrical or special effects

## Details of the supplier of the safety data sheet

Company Octavius Hunt Ltd

Redfield, BRISTOL, BS5 9NQ, UK

1.4. Emergency telephone number

+ 44 (0) 7720 051020 (24h)

#### **SECTION 2: HAZARDS IDENTIFICATION**

#### 2.1 Classification of the substance or mixture

- Classification (Regulation (EC) No 1272/2008) [CLP/GHS]: Skin Irrit. 2. H315; Eye Irrit. 2A. H319; Aquatic Chronic 3, H412
- Additional Information: For full text of Hazard and EU Hazard-statements: see section 16

## 2.2 Label elements

UFI: D110-X0YN-000J-AV5W



Signal word: Warning

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## **SECTION 2: HAZARDS IDENTIFICATION (....)**

#### **Hazard statements**

H315	Causes skin irritation
H319	Causes serious eye irritation
H412	Harmful to aquatic life with long lasting effects.

## **Precautionary statements**

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302 + P352 IF on skin wash with plenty of soap and water.

P273 Avoid release to the environment

P305 + P351 + P338

IF in Eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do so. Continue rinsing.

P337+P313 If eye irratation persists: Get medical advice / attention

P501 Dispose of contents/container in accordance with local / regional / international

regulations.

Supplemental Hazard Information (EU)

- None

#### 2.3 Other hazards

- Ignites readily. Product burns without a flame to give a dense white harmful smoke.
- Combustion products include ammonium chloride
- This product contains <1% respirable silica
- Not a PBT according to Reach Annex XIII
- Not a vPvB according to Reach Annex XIII

#### **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

#### 3.1. Substances: N.A.

## 3.2. Mixture

Contains the following hazardous ingredients or ingredients with a workplace exposure limit

Chemical Name	Conc.	CAS No.	EC No.	Classification according to Regulation (EC) No 1278/2008 (CLP).	REACH Registration Number	WEL/ OEL
1- (Methylamino)an thraquinone	11-12% w/w	82-38-2		Skin irrit. 2. H315 Eye Irr. 2A. H319 STOT. 3. H335	A registration number is not available for this substance	8
Base oil - unspecified - residual oils (petroleum), solvent- dewaxed	1 - 3% w/w	64742-62-7	265-166-0	Not classified	01-2119480472- 38-XXXX	No
Potassium chlorate	20 - 25% w/w	3811-04-9	223-289-7	Ox. Liq. H271; Acute Tox. H302; Acute Tox 4 H332; Aquatic Chronic 2, H411	01-2119494917- 18-xxxx	No
Sodium hydrogen carbonate	1 -3% w/w	144-55-8	205-633-8	Not classified		No
Talc*	25-45%	14807-96-6	238-877-9	Non-Hazardous	Reach exempt	Yes

<sup>\*</sup> Substance with a workplace exposure limit

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#### **SECTION 4: FIRST AID MEASURES**

#### General advice:

#### **SECTION 4: FIRST AID MEASURES**

Rescuers should take suitable precautions to avoid becoming casualties themselves

## 4.1 Description of First Aid Measures General Advice:

Show this safety data sheet to the doctor in attendance

## Contact with eyes:

If substance has got into eyes, immediately wash out with plenty of water for several minutes. Irrigate eyes thoroughly whilst lifting eyelids.

Remove contact lenses, if present and easy to do. Continue rinsing.

#### Contact with skin:

Take off contaminated clothing and wash it before reuse.

Wash affected area with plenty of soap and water.

If skin irritation occurs: Get medical advice/attention

#### Inhalation:

If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

If unconscious, place person in recovery position

Apply artificial respiration only if patient is not breathing but **do not** use mouth to mouth resuscitation. Get immediate medical advice/attention.

### Ingestion:

Rinse mouth with water (do not swallow).

Give 200-300mls (half pint) water to drink.

Do NOT induce vomiting. Get medical advice/attention.

## 4.2. Most important symptoms and effects, both acute and delayed

Contact with eyes

May cause irritation.

Contact with skin

- May cause redness and irritation.
- In cases of severe exposure, blistering of the skin may develop.

#### Ingestion

- Can form methaemoglobin in the blood, causing cyanosis.
- May cause burns to mouth and throat.
- May cause stomach pain.
- May cause nausea/vomiting.
- There may be bleeding from the mouth or nose.

#### Inhalation

- May cause shortness of breath.
- May cause coughing and tightness of chest.
- Prolonged and/or massive inhalation of respirable crystalline silica dust may cause lung fibrosis, commonly referred to as silicosis. Principal symptoms of silicosis are cough and breathlessness

## 4.3. Immediate Medical Attention

Risk of methemoglobinemia. Not to be treated with methylthionine. - Treat symptomatically.

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## SECTION 5: FIRE FIGHTING MEASURES

#### 5.1. Extinguishing media:

Suitable extinguishing media: Sand/earth; foam; water spray; carbon dioxide.

- Unsuitable extinguishing media:

Do not use water jets;

Dry agent extinguishers are unsuitable and should not be used.

## 5.2. Special Hazards arising from the mixture:

- Ignites readily.
- Contains an oxidising agent; may assist combustion.
- May form explosive dust/air mixtures.
- Gives off irritating or toxic fumes (or gases) in a fire.
- Decomposition products may include oxygen, ammonium chloride, carbon oxides, nitrogen oxides, ammonia, hydrocyanic acid (HCN).

#### 5.3. Advice for fire-fighters:

- Collect contaminated fire extinguishing water separately. This MUST not be discharged into drains. Prevent fire extinguishing water from contaminating surface or ground water.
- Special protective equipment: Wear self-contained breathing apparatus (SCBA). Wear full protective clothing including chemical protection suit.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1. Personal precautions, protective equipment and emergency procedures:

- No action shall be taken involving any personal risk or without suitable training.
- Only trained and authorised personnel should carry out emergency response. Avoid formation of dust.
- Shut off all ignition sources
- Personal precautions for non-emergency personnel: Avoid breathing dust/fume/gas/mist/vapours/spray; Avoid contact with skin and eyes; Wear protective clothing as per section 8; Wash thoroughly after handling; Eyewash bottles should be available.
- Personal precautions for emergency responders: Evacuate the area and keep personnel upwind; Wear chemical protection suit; Wear self-contained breathing apparatus (SCBA).

# 6.2. Environmental precautions:

- Avoid release to the environment.
- Do not allow to enter public sewers and watercourses.
- If contamination of drainage systems or water courses is unavoidable, immediately inform appropriate authorities.

## 6.3. Methods and material for containment and cleaning up:

- Do not absorb spillage in sawdust or other combustible material.
- Avoid formation of dust.
- Shut off all ignition sources.
- Take action to prevent static discharges.
- Do not allow to enter public sewers and watercourses.
- Small spills Wipe up spillage with damp absorbent cloth or towel. Wash spill site with water and detergent.
- Large spills Evacuate the area and keep personnel upwind.

Damp down to avoid dust generation.

Absorb spillage in earth or sand.

Sweep or shovel-up spillage and remove to a safe place.

Place in appropriate container.

Seal containers and label them.

Remove contaminated material to safe location for subsequent disposal.

Ventilate the area and wash spill site after material pick-up is complete.

## 6.4. Reference to other sections:

- See section(s): 7, 8 & 13

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#### SECTION 7: HANDLING AND STORAGE

## 7.1. Precautions for safe handling

- Read the label before use.
- Prevent formation of dust.
- Take precautionary measures against static discharges.
- Ensure adequate ventilation.
- In case of inadequate ventilation wear respiratory protection.
- Avoid contact with skin and eyes.
- Do not eat, drink or smoke when using this product.
- Keep away from heat and sources of ignition. Avoid contact with acids and alkalis.
- Avoid release to the environment.
- Take off contaminated clothing.
- Contaminated work clothing should not be allowed out of the workplace.
- Contaminated clothing should be laundered before reuse.
- Eyewash bottles should be available.

## 7.2. Conditions for storage, including any incompatibilities

- Shelf life: 2 years when stored in the original unopened sales container at ambient temperatures.
- Store in a cool, dry well-ventilated place. Keep container tightly closed.
- Keep away from combustible material.
- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Keep out of reach of children.

#### 7.3. Specific end use

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

#### 8.1. Control parameters

- For currently recommended monitoring procedures, see HSE series 'Methods for the Determination of Hazardous Substances' (MDHS).
- Occupational exposure to respirable crystalline silica dust should be monitored and controlled.
- Potassium chlorate

DNEL (inhalational) 5.76 mg/m3 Industry, Long Term, Systemic Effects

DNEL (dermal) 3.5 mg/kg (bw/day) Industry, Long Term, Systemic Effects

DNEL (inhalational) 300 ug/m3 Consumer, Long Term, Systemic Effects

DNEL (dermal) 130 ug/kg (bw/day) Consumer, Long Term, Systemic Effects

DNEL (oral) 60 ug/kg (bw/day) Consumer, Long Term, Systemic Effects PNEC aqua (freshwater) 1.15 mg/l PNEC aqua (marine water) 1.15 mg/l PNEC (STP) 115 mg/l PNEC terrestrial (soil) 3.83 mg/kg

#### 8.2. Exposure controls

- Selection and use of personal protective equipment should be based on a risk assessment of exposure potential.
- Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

Where a reusable half mask respirator is required, use EN 140, with gas/vapour filter EN 14387 type ABEK, or EN 405; EN 1827 and EN 143 particle filter.

Where a full face mask respirator is required, use EN 136, with gas/vapour filter EN 14387 type ABEK and particle filter EN 143.

- Skin protection

Wear suitable protective clothing.

Wear protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and standard EN 374. The selection of a suitable glove depends on work conditions and whether the product is present on its own or in combination with other substances. Breakthrough time is dependent on the characteristics of the brand of glove used and the supplier should be consulted. PVC or rubber gloves are recommended.

Eye/face protection

Wear goggles giving complete eye protection approved to standard EN 166.

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## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION (....)

- Hygiene measures

Contaminated clothing should be laundered before reuse.

Do not eat, drink or smoke when using this product.

Eyewash bottles should be available.

- Environmental exposure controls

Avoid release to the environment.

Do not empty into drains

Compressed product unlikely to be released unless damaged.









#### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

## 9.1 Information on basic physical and chemical properties

Colour: Red

Physical State: Compressed pellet

Odourless.

Melting Point:

Boiling point:

Flash-Point:

Autoignition temperature

Minimum Ignition:

Odourless.

Not applicable.

Not applicable.

Not available

Not available.

Not available

Oxidizing properties: Contains an oxidising agent; may assist

combustion.

Energy Explosive properties Not applicable Vapour pressure: Not available.

Solubility: Partly soluble in/with water.

pH-value (quant.):
Partition coeff. (n-octanol/water):
Not available.
Not available.
Not available.

9.2 Other Information: Further safety relate physical-chemical data are not known.

# SECTION 10. STABILITY AND REACTIVITY

- 10.1 Reactivity
- No hazardous reactions known if used for its intended purpose
- 10.2 Chemical stability
- Considered stable under normal conditions.
- 10.3 Possibility of hazardous reactions
- Reacts with combustible material.
- Reacts with acids liberating toxic gas (chlorine).
- 10.4 Conditions to avoid
- Avoid formation of dust.
- Keep away from heat and sources of ignition.
- Keep away from static electricity.
- 10.5 Incompatible materials
- Incompatible with strong acids.
- Incompatible with alkalis (strong bases).
- Incompatible with halogenated substances.
- 10.6 Hazardous decomposition products
- Decomposition products may include oxygen, ammonium chloride, carbon oxides, nitrogen oxides, ammonia, hydrocyanic acid (HCN).

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#### SECTION 11. TOXICOLOGICAL INFORMATION

## 11.1 Information on toxicological effects

Chemical name	LD50 (oral, rat)	LC50 (inhalation, rat)	LD50 (dermal, rabbit)
1-(Methylamino)anthraquinone	No data available	No data available	No data available
Potassium chlorate	500 mg/kg	5 mg/l (4 hr)	NS

- Skin corrosion/irritation

Causes skin irritation.

Classification based on calculation and concentration thresholds.

- Serious eye damage/irritation

Causes serious eye irritation.

Classification based on calculation and concentration thresholds.

- Respiratory or skin sensitisation

Based on available data, the classification criteria are not met.

- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity No evidence of reproductive effects
- Specific target organ toxicity (STOT) single exposure Based on available data, the classification criteria are not met.
- Specific target organ toxicity (STOT) repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard

Based on available data, the classification criteria are not met.

- Contact with eyes

May cause severe irritation. Causes redness and swelling.

- Contact with skin

May cause redness and irritation.

In cases of severe exposure, blistering of the skin may develop.

- Ingestion Can form methaemoglobin in the blood, causing cyanosis

May cause burns to mouth and throat.

May cause stomach pain.

May cause nausea/vomiting.

There may be bleeding from the mouth or nose.

- Inhalation Causes shortness of breath.

May cause coughing and tightness of chest.

Prolonged and/or massive inhalation of respirable crystalline silica dust may cause lung fibrosis, commonly referred to as silicosis. Principal symptoms of silicosis are cough and breathlessness.

# **SECTION 12. ECOLOGICAL INFORMATION**

#### 12.1 Toxicity

- Harmful to aquatic life with long lasting effects.
- Classification based on calculation and concentration thresholds.

- Potassium chlorate

LC50 (fish) 1 g/l (4 days)

EL50 (aquatic invertebrates) 1 g/l (48 hr)

EL50 (aquatic algae) 1.9 - 500 mg/l (72 hr)

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-1-(Methylamino)anthraquinone No data available

#### 12.2 Persistence and degradability

- Potassium chlorate Biodegradable
- -1-(Methylamino)anthraquinone No data available

## 12.3 Bio accumulative potential

- Chlorate is converted to chlorite in plants, which accumulates in cells until toxic concentrations are reached, when the plant dies

## 12.4 Mobility in soil

- No information available

#### 12.5 Results of PBT and vPvB assessment

- Not a PBT according to REACH Annex XIII
- Not a vPvB according to REACH Annex XIII

## 12.6 Other adverse effects

- No information available

#### SECTION 13. DISPOSAL CONSIDERATIONS

#### 13.1. WASTE TREATMENT METHODS

- Do not discharge into drains or the environment, dispose to an authorised waste collection point
- Dispose of product and packaging in accordance with national waste regulations.
- This material and/or its container must be disposed of as hazardous waste.

## 13.2 Classification

- The waste must be identified according to the List of Wastes (2000/532/EC).
- Hazardous Property Code(s): HP 4 Irritant; HP 14 Ecotoxic

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## **SECTION 14. TRANSPORT INFORMATION**

Not classified as hazardous for transport

#### 14.1 UN number

- UN No.: Not applicable

## 14.2 UN proper shipping name

- Proper Shipping Name: Not applicable

# 14.3 Transport hazard class(es)

- Hazard Class: Not applicable

## 14.4 Packing group

- Packing Group: Not applicable

## 14.5 Environmental hazards

Not Classified

#### 14.6 Special precautions for user

Not Classified

## 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

## 14.8 Road/Rail (ADR/RID)

- Proper Shipping Name: Not applicable
- ADR UN No.: Not applicable
- ADR Hazard Class: Not applicable
- ADR Packing Group: Not applicable
- Tunnel Code: Not applicable

## 14.9 Sea (IMDG)

- Proper Shipping Name: Not applicable
- IMDG UN No.: Not applicable IMDG Hazard Class: Not applicable
- IMDG Pack Group.: Not applicable

## 14.10 Air (ICAO/IATA)

- Proper Shipping Name: Not applicable
- ICAO UN No.: Not applicable ICAO Hazard Class: Not applicable -

ICAO Packing Group: Not applicable

#### SECTION 15. REGULATORY INFORMATION

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- This safety data sheet is provided in compliance with REACH Regulation (EC) No 1907/2006 as amended by Regulation (EU) 2015/830.
- Regulation (EC) No. 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation) applies in Europe.
- The COSHH Regulations apply in the UK.

## 15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

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## **SECTION 16. OTHER INFORMATION**

Information contained in this data sheet is accurate to the best of our knowledge and belief and is given in good faith. It is intended to describe our product from the point of view of safety requirements and is not intended to guarantee any particular properties.

Sources of data: Information from published literature and supplier safety data sheets

Revision No. 5.2. Revised December 2020.

Changes made: Revised to add in UFI in section 2.2

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Skin Irrit. 2. H315: Classification based on calculation and concentration thresholds Eye Irrit. 2A. H319: Classification based on calculation and concentration thresholds Aquatic Chronic 3, H412: Classification based on calculation and concentration thresholds Text not given with phrase codes where they are used elsewhere in this safety data sheet:

- H271: May cause fire or explosion; strong oxidiser
- H302: Harmful if swallowed
- H332: Harmful if inhaled
- H335: May cause respiratory irritation
- H411: Toxic to aquatic life with long lasting effects

#### Acronyms

- CAS: Chemical Abstracts Service
- DNEL: Derived No-Effect Level
- EC: European Community
- EC50: Effective Concentration, 50%
- GHS: Globally Harmonised System
- IARC: International Agency for Research on Cancer
- IC50: Half-maximal inhibitory concentration
- LC50: Lethal Concentration, 50%
- LD50: Lethal Dose, 50%
- NOAEC: No observed adverse effect concentration
- NOAEL: No observed adverse effect level
- NOEC: No observed effect concentration
- OEL: Occupational Exposure Limit
- PBT: Persistent, Bioaccumulative and Toxic
- PNEC: Predicted No-Effect Concentration
- REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
- vPvB: very Persistent and very Bioaccumulative
- WEL: Workplace Exposure Limit

Previous revisions should be destroyed.

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