



Material Safety Data Sheet (MSDS) 1-6

Revision date: 15th February 2015 replaces all previous editions

SPARKLERS in Shapes

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

Identification of the substance or preparation

Tradename SPARKLERS in shapes wondercandle

Company identification

Company	RCB GmbH
Phone	+49 7243 524693
Fax	+49 7243 524695
Website	www.wondercandle.de
Emergency Phone	+49 7243 524693

2. COMPOSITION / INFORMATION ON INGREDIENTS Chemical characteristic

Formulation type	Aluminium Powder Barium Nitrate, Iron
Use	Domestic and public displays
Aluminium powder	EC -No.: 231-072-3
Barium Nitrate	EC- No.: 233-020-5

Iron

EC- No.: 231-096-4

Hazardous Components

CAS No.	Hazardous ingredients	Concentration	Hazard symbols	Risk phrases
7429-90-5	Aluminium Powder (Classification according to Directive 67/548/EEC)	5-10% w/w	F	10, 15
10023-31-8	Barium Nitrate (Classification according to Directive 67/548/EEC)	50 -70% w/w	O, Xn	8, 20/22
7439-89-6	Iron	25-30% w/w	F	11

Information to exposure limit values - see section 8.

3. HAZARDS IDENTIFICATION Explosive. Highly Flammable.

4. FIRST AID MEASURES

Eye contact: Immediately irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 15 minutes. Obtain immediate medical attention. **Skin contact:** Wash skin immediately with water, followed by soap and water. Such action is essential to minimise contact with skin. Contaminated clothing should be laundered before re-issue.

Ingestion: If swallowed seek medical advice immediately and show this Data Sheet, if possible. Do not induce vomiting. **Burns:** In case of burns, immediately cool the area for as long as possible with cold water. Seek immediate medical aid.

5. FIRE FIGHTING MEASURES

Explosive. Highly flammable. Ignites readily. Oxidising agent; may assist combustion. Keep fire exposed containers cool by spraying with water. **Extinguishing media:** For small fires, use foam, carbon dioxide or dry powder extinguishant. For large fires, use foam or water-fog; avoid use of water jet. **Protective Equipment:** A self-contained breathing apparatus and suitable protective clothing should be worn in fire conditions.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Ensure suitable personal protection during removal of spillages. This means wearing eye protection, chemically resistant gloves (e.g. 0.6 mm nitrile), boots and coveralls. See also Section 8. **Clean up methods:** Do not expose to electric current or heat. Do not repack, but protect exposed material from accidental ignition, reseal where necessary.

7. HANDLING AND STORAGE

Handling

Read the label before use. Keep away from eyes and skin. Keep away from clothing etc. Spent sparklers remain very hot. To be lit singly. Hold the handle in gloved hand at arms length. When using do not eat, drink or smoke.

Storage

Keep away from sources of ignition. Keep in original containers, tightly closed, out of reach of children. Keep away from food, drink and animal feeding stuffs. Protect from frost. **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

Exposure Controls

Ensure there is sufficient ventilation of the area during use.

Personal Protection

When using this product refer to the label for details. In all other cases, use the following Personal Protective Equipment: Eye protection: Wear suitable eye/face protection conforming to EN 166. Hand protection: Wear suitable heat resistant gloves.

Body protection: Wear suitable fireproof protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Colour: Physical State:

Odour: Melting Point: Boiling point: Flash-Point: Autoignition temperature Minimum Ignition temp. Minimum Ignition: Oxidizing properties: Energy Explosive properties Vapour pressure: Solubility: pH-value (quant.): Partition coeff.: Density:

Grey/Silver. Composition dipped onto one end of a steel wire. None detectable. Not applicable. Not applicable. Does not flash. 300 °C 225 °C Not available. Oxidising agent; may assist combustion. Not applicable Not available. Partly soluble in/with water. Not available. Not available. Not available.

10. STABILITY AND REACTIVITY

Hazardous decomposition products: Combustion or thermal decomposition will evolve toxic and irritant vapours.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity (Lethal Doses)

Oral LD50 rat: 355 mg/kg (limit dose). Harmful if swallowed Smoke may cause irritation.

Acute Toxicity (Irritation, Sensitisation, etc.)

Skin Irritation: Unlikely to cause skin irritation.

Chronic Toxicological Effects / Long Term Exposure

Long Term Exposure: No long-term risks to man are associated with this material when handled and used as directed on the label.

12. ECOLOGICAL INFORMATION

Not readily biodegradable

13. DISPOSAL CONSIDERATIONS Methods of disposal / destruction

There is generally more than one way of destroying the product. The method used will depend on the type and position of the disposal site. There are two ways in which igniters should be disposed of or destroyed:

- burning
- dissolving or diluting by a solvent **Dumping at sea (or in landfill) is no longer, under any circumstances, considered to be a suitable method of disposing of explosives.**

Fire precautions

Destruction areas ('burning grounds') at factories and magazines licensed under the Explosives Act 1875 are subject to the Fire Certificates (Special Premises) Regulations 1976. Destruction areas at sites other than licensed factories or magazines may be subject to the Fire Precautions Act 1971 - advice should be sought from the local fire service.

An HSE Guidance Note, 'Disposal of explosives waste' gives further advice on the methods, facilities and organisation necessary for the safe disposal of explosives and materials contaminated by explosives. Advice on disposal is also available from HSE's Explosives Inspectorate.

14. TRANSPORT INFORMATION

Rail / Road (RID / ADR)

Proper Shipping Name

Sea (IMDG-Code)

Proper Shipping Name Marine pollutant

Air (ICAO / IATA)* * Cargo Aircraft Only

Proper Shipping Name

Class Classification UN Code Number

Class 4.1 Packing Group II

UN 3178 FLAMMABLE SOLID, INORGANIC, N.O.S (Novelties)

Kemmler Index

EMS MFAG F-B S-X

15. REGULATORY INFORMATION

This product is covered by the Classification and Labelling of Explosives Regulations 1983. It has therefore been labelled in accordance with these Regulations. Users should ensure that they comply with any relevant local, state or national legislation.

16. OTHER INFORMATION

Always read the label. Use explosives safely.

The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.