Section 1: Product and Company Identification

BRK Brands, Inc.
3901 Liberty Street Road
Aurora, IL 60504
630-851-7330

Product Name: Smoke Alarms
Product Description: Battery-operated and Hardwired Alarms
Date of Revision: December 6th 2017

24-Hour Emergency Phone Number: (800) 424-9300 (CHEMTREC) U.S. & Canada
Outside U.S. & Canada Call (703) 527-3887
Use only for spills and releases.

Section 2: Hazard Identification

Emergency Overview: Ionization type smoke alarm consisting of a plastic enclosure approximately 2 to 6 inches in diameter containing battery compartment, electronics and radiation source. Small metal capsule of approximately 6.4 mm diameter is a sealed radioactive source containing a maximum of 1 micro Curie of Americium 241. The radioactive americium 241 foil is sealed in a capsule designed to prevent leakage or escape of radioactive material. Radiation and chemical hazards develop when capsule is breached. The primary hazard is internal; **do not inhale or ingest**.
External exposure is far less of a hazard.

OSHA Regulatory Status: This device is specifically exempted from OSHA MSDS requirements as an article (29 CFR 1910.1200 (c)((I), (ii), and (iii); and as an ionizing radiation source (29 CFR 1910.1200 (b)(6)(xi)). Radioactive source is manufactured under Sealed Source and Device Registry TX-167-S-102-S. This MSDS is provided as a customer service.

WHMIS Status: This device is not regulated by WHMIS and this document is not subject to WHMIS requirements.

Potential Health Effects:
Inhalation: Radiation hazard only if sealed source capsule is removed and breached. Radioactive material is not in inhalable form.
Ingestion: No danger from intact source capsule.
Skin Contact: Not possible with intact source capsule.
Eye Contact: Not possible with intact source capsule.
Chronic Exposure: No information found.
Aggravation of Pre-existing Conditions: No information found.
Target Organs: Lungs, in event where sealed capsule removed and altered.

Section 3: Composition / Information on Ingredients

Component	Common Names, Synonyms	CAS #	EINECS	Weight %
Americium-241 oxide	Americium dioxide	12005-67-3	234-471-0	<0.01

Non-hazardous components may or may not be listed. Carcinogens are listed when present at 0.1% or more; components which are otherwise hazardous according to OSHA are listed when present at 1.0% or more. This is not intended to be complete compositional disclosure. See Section 15 for applicable states right to know and other regulatory information.

Section 4: First Aid Measures

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion: If swallowed, get medical attention.
Skin: No treatment needed.
Eyes: No treatment needed.
Note to Physicians: Not applicable.

Section 5: Fire Fighting Measures

Fire: Not flammable. Generally, no rupture or release is expected with most fires.
Explosion: Not considered an explosion hazard.
Extinguishing Media: Use media suitable for surrounding fire.
Special Precautions: None
NFPA Rating: Health - 0 Flammability - 0 Reactivity - 0 Other – NA

Section 6: Accidental Release Measures

If 6.4 mm diameter metal source capsule is breached, maintain a minimum distance of 6 feet from device. Handle only with proper PPE and knowledge of radiation dangers.

Section 7: Handling and Storage

Protect against physical damage. Emitting face is more fragile than main case. Follow good practices and handle only with appropriate tools or gloves.

Section 8: Exposure Control / Personal Protection

Component	CAS #	OSHA PEL	ACGIH TLV	NIOSH TLV
Americium-241 oxide	12005-67-3	1 mg/m^3 TWA		1 mg/m^3 TWA 15 mg/m^3 IDLH

Personal Protective Equipment: None required during routine use.
Skin Contact: Even thin plastic or rubber gloves can provide protection against chemical and radiation hazards from brief exposures to open radioactive source capsules.
Eye Contact: No PPE is necessary for intact source capsules.
Inhalation: No PPE is necessary for intact source capsules.
Engineering Controls: No PPE is necessary for intact source capsules.

Section 9: Physical and Chemical Properties

Americium-241 contained in extremely thin layer backed by silver, gold and palladium. Only outer metal housing exposed in intact device.

Section 10: Stability and Reactivity

Chemical Stability: This product is stable at room temperature.
Hazardous Decomposition Products: Combustion may generate toxic gases such as carbon monoxide (CO).
Hazardous Polymerization: Will not occur.
Incompatibilities: Acids, flames, heat.
Conditions to Avoid: Fire

Section 11: Toxicological Information

Acute Dose Effects: **Eyes**: No information found.
Skin: No information found.
Oral: No information found.
Inhalation: No information found.

Not listed in the National Toxicology Program (NTP) Report on Carcinogens.
Not found to be a potential carcinogen in the IARC monographs.
OSHA has not found this to be a potential carcinogen.

Section 12: Ecological Information

Environmental Fate: This product is not expected to bioaccumulate. This product is not biodegradable.
Ecotoxicity: No information found.

Section 13: Disposal Considerations

As a waste, this material IS NOT considered a HAZARDOUS WASTE under RCRA (29 CFR 261).

Disposal of intact device can be in ordinary sanitary landfill. Device can be returned to manufacturer for disposal. Batteries should be removed first and disposed of according to local regulations.

Section 14: Transport Information

For U.S. 49 CFR, TDG, IATA or IMDG:
Proper Shipping Name: Radioactive material, excepted package - articles
Transport Hazard Class: 7
UN Number: 2911
Label: 7

Section 15: Regulatory Information

TSCA Chemical Inventory: All the chemicals in this product are listed on the TSCA Inventory.

TSCA Sec 4 Chemical Test Rule: None of the chemicals in this product are under a Chemical Test Rule.

TSCA Sec 8(d): None of the chemicals in this product are on the Health and Safety Reporting List.

TSCA Sec 12(b) Notices of Export: None of the chemicals in this product are on this list.

TSCA Significant New Use Rule (SNUR): None of the chemicals in this product are on this list.

SARA Sec 302 (EHS) TPQ: None of the chemicals in this product have a TPQ.
SARA Sec 302 (EHS) RQ: None of the chemicals in this product have a RQ.
SARA Sec 311/312: Acute – No; Chronic – No; Fire – No; Release of Pressure – No; Reactivity – No
SARA 313 List: None of the components in this product is reportable under Section 313 Title III and 40 CFR Part 372.

CERCLA Hazardous Substances and corresponding RQs: Not applicable

RCRA: None of the chemicals in this product are on this list.

Clean Air Act: **Hazardous Air Pollutants?** No
Class 1 Ozone Depletors? No
Class 2 Ozone Depletors? No

Clean Water Act: **Hazardous Substance?** No **Priority Pollutant?** No **Toxic Pollutant?** No

Chemical Weapons Convention: None of the chemicals in this product are on this list.

Drug Enforcement Agency (DEA) CDTA: None of the chemicals in this product are on this list.

OSHA: None of the chemicals in this product are considered Highly Hazardous by OSHA.

State Right-to-Know Lists: None.

California Proposition 65: None of the chemicals in this product are on this list.

Canadian WHMIS: Not controlled
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Section 16: Other Information

This document was prepared in accordance with 29 CFR 1910.1200, Canadian CPR and ANSI Z400.1-2004.

Prepared by Daniel Eavenson on December 6, 2017.

Summary of changes: Updated title to SDS. Added specific identifications to Section 11. Added summary of changes to section 16. Formatting updated in all sections.

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