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SAFETY DATA SHEET

Read this SDS before handling and disposing of this product and pass this information on to all users of this product.

BuffLite is not a hazardous product under normal conditions of use.

1. Identification of the preparation and of the company/undertaking

1-1 Identification Of The Preparation/ Trade Names

Trade name(s): BuffLite / HB
Chemical name: Propylene Copolymer
Chemical Family: Polypropylene

1-2 Company/Undertaking Identification:

Hanwha Advanced Materials America 1530 E. Front St, Monroe Michigan 48161-2456 USA	Hanwha Advanced Materials America 4400 North Park Dr, Opelika Alabama 36801 USA
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1-3 Emergency Telephone

MI Plant: +1-734-457-5600 / AL Plant: +1-334-741-7725

1-4 Use Of The Substance/ Preparation

Use: Recyclable parts for energy absorbing, structural strength, and thermal/sound insulation with light weight.

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2. HAZARDS IDENTIFICATION

These products have not been classified hazardous and do not require hazard warning labels, in accordance with current legislation.

3. COMPOSITION/INFORMATION ON INGREDIENTS**3-1 Composition**

BuffLite white and color incorporate mineral and organic elements in a polypropylene copolymer

<u>Component</u>	<u>% Weight</u>	<u>Cas No</u>	<u>**EINECS No</u>
Polypropylene	95 ~99.9	9010-79-1	N/A

BuffLite black incorporate mineral and organic elements in a polypropylene copolymer and carbon black

Compositions given are typical values, not specifications

<u>Component</u>	<u>% Weight</u>	<u>Cas No</u>	<u>**EINECS No</u>
Polypropylene	90 ~99.9	9010-79-1	N/A
Color pigment	0 ~ 10	1333-86-4	215-609-9

3-2 Information On Ingrdients

Hazardous ingredient(s): None

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4. FIRST AID MEASURES

In the event of exposure by inhalation

These products do not normally present a significant inhalation hazard

In case of inhalation excessive airborne dust, move to an area of fresh air

In the event of contact with skin

These products are not expected to present a significant hazard

If skin irritation is experienced, wash the area and seek medical advice

if symptoms persist.

In the event of contact with eye

In case of any particles or dust coming into contact with your eyes,
you should rinse your eyes with clean running water.

In the event of swallowing.

If you swallow any of the product, seek medical advice immediately.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media: Water, CO₂, foam or dry chemical

Extinguishing media which shall not be used: High volume water jet.

Special exposure hazards: Combustible material. Heat sensitive may melt.

Incomplete thermal decomposition or burning may release hazardous

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products and/or flammable vapors

6. ACCIDENTAL RELEASE MEASURES

Spilled product may create slipping hazard on any hard smooth surface. In case of spillage, sweep up all loose product immediately.

Methods for cleaning up: Avoid dust formation. Collect the spilled product into a suitable container, which should be properly labelled.

- See section 13. for appropriate disposing.
- See section 7. for handling and storage.

7. HANDLING AND STORAGE

Handling: Avoid the formation and deposition of dust.

In order to avoid static discharge, equipment should be made of electrically conductive material and be earth grounded.

Storage: Keep away from heat or ignition sources and UV exposure.

These products can be stored indefinitely at normal room temperature.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure limit values: DUST (TWA = 10mg/m³)

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Occupational exposure controls: No special precautions are necessary. Handle in accordance with industrial hygiene and safety practice.

Respiratory protection: Under anticipated conditions of normal use these products are not usually considered as a respiratory hazard.

Skin and hand protection: Under anticipated conditions of normal use these products are not usually considered as a skin hazard.

Eye protection: Under anticipated conditions of normal use these products are not usually considered as hazardous to the eyes.

Wearing safety glasses can prevent the risk of the product coming into contact with the eyes.

9. PHYSICAL AND CHEMICAL PROPERTIES

9-1 General Information

Physical state: Solid at 25°C

Appearance: Small beads

Color: White, black, grey, blue, orange, yellow, green, red, pink

9-2 Important Health, Safety And Environmental Information

Odor: None

Density at 25°C(g/L): 10 ~ 200

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Solubility in water: Insoluble

Other solvents: Slightly soluble in hot organic solvents

Melting point temperature: 130 ~ 170°C

Auto ignition temperature: ~350°C

10. STABILITY AND REACTIVITY

Stability: These products are chemically stable

Condition to avoid: avoid from heat or all source of ignition (flame or sparks)

Materials to avoid: None

Hazardous decomposition products: No hazardous decomposition if the product is used as recommended.

11. TOXICOLOGICAL INFORMATION

Acute toxicity: Based on our experience and the information available, no adverse

In the event of inhalation: Inhaling excessive airborne dust can cause irritation to the upper respiratory tract

In the event of swallowing: Swallowing particles of these products can create a false feeling of satiety

In the event of contact with skin: Under anticipated conditions of normal use these products are not usually considered as a skin hazard

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In the event of contact with eye: Under anticipated conditions of normal use these products are not usually considered as a hazard to the eyes

12. ECOLOGICAL INFORMATION

Ecotoxicity: The product has no known eco-toxicological effect.

Elimination: The product is not bio degradable
The product can be mechanically separated.

13. DISPOSAL CONSIDERATIONS

Products: The product should be disposed of in compliance with local and national legislation. Waste management schemes should be promoted.

Packaging: The packaging should be disposed of in compliance with local and national legislation.

14. TRANSPORTATION INFORMATION

Transportation type	UN Number	
Road & Rail transport	ADR/RID	Not classified as dangerous goods
Inland Waterway Transport	ADR	Not classified as dangerous goods
Sea Transport	IMO-IMDG code	Not classified as dangerous goods

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Air Transport

ICAO/IATA

Not classified as dangerous goods

15. REGULATORY INFORMATION**15-1 Preparation Classification**

These products are not classified as hazardous

Symbols(s) None

Risk Phrase(s) None

Safety Phrase(s) None

15-2 Chemical Safety Assessment

A chemical safety assessment is not required.

16. OTHER INFORMATION

All information contained herein is based on the present state of our knowledge at the date of issue. It is believed to be accurate. It is intended to describe products from the point of view of safety requirements. It should not be construed as guaranteeing specific properties.

This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

Please note that BuffLite grades are not classified as hazardous products, therefore there is no legal requirement to provide a Safety Data Sheet for these products
