

# Material Safety Data Sheet

Date of Revise: 2015.05.20

## SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** PUFF DINO BLACKING SPRAY 420ml  
**Item Code:** BLS40  
**Supplier:** PUFFDINO TRADE CO., LTD.  
25, 23 Road, Industrial Park,  
Taichung City 40850, Taiwan  
TEL: +886-4-23503555  
FAX: +886-4-23501867  
**Emergency TEL:** +886-4-23503555



## SECTION 2 – COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS NO.	PERCENTAGE
Graphite Powder	7782-42-5	≤ 8%
Acrylic Resin	9063-87-0	≤ 20%
Solvent		≤ 22%
Dimethyl Ether	115-10-6	≤ 50%

## SECTION 3 – HAZARDS IDENTIFICATION

### Adverse Health Effects:

<b>Inhalation</b>	In high concentrations, vapor and spray mist are narcotic and may cause headache, fatigue, dizziness and nausea. Vapor / aerosol spray may irritate the respiratory system.
<b>Skin contact</b>	Prolonged and repeated contact may cause irritation.
<b>Eye contact</b>	Irritating to eyes.
<b>Ingestion</b>	May cause irritation or pain to the gastrointestinal system. Chronic ingestion of dispersions may cause kidney or CNS damage.

## SECTION 4 – FIRST AID MEASURES

### The First-aid Measures For Different Exposure Routes:

<b>Inhalation</b>	For severe inhalation move the patient to fresh air, rest the patient and keep warm.
<b>Skin contact</b>	Wash contaminated skin with soap and water.
<b>Eye contact</b>	Flush with water for 15 minutes. If symptoms persist seek medical attention.
<b>Ingestion</b>	Product is not intended to be ingested or eaten. If this product is ingested, induce vomiting with finger. DO NOT do it to whom loss of consciousness.

## SECTION 5 – FIRE FIGHTING MEASURES

**Fire extinguishing media:** Foam, CO2, Dry chemical, Water fog.

**Specific hazards may be encountered during fire-fighting:** Aerosol containers can explode when heated, due to excessive pressure build-up. Vapor may be ignited by a spark, a hot surface or an ember. Vapor are heavier than air and may travel along the floor and in the bottom of containers. Vapor may be ignited by a spark, a hot surface or an ember.

**Special fire-fighting procedures:** In case the materials is released or spilled, rinse affected area thoroughly

with water for clean-up. These procedures will help to minimize potential exposures.

**Specific equipment for the protection of fire-fighters:** Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Remove the contaminated clothes, wearing after wash or scrape up. DO NOT smoke in working area. Wash hands thoroughly after handling. Wear protective clothing as described in Section 8 of this safety data sheet.

**Environmental precautions:** Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

**Methods for cleaning up:** Keep combustibles away from spilled material. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Spills should be covered with sand, dirt, gravel or calcium chloride. Wash thoroughly after dealing with a spillage.

## SECTION 7 – HANDLING AND STORAGE

**Handling:** Keep away from all ignition sources. Use only with adequate ventilation. Do not cut, puncture, or weld on or near this container. Do not breathe vapors.

**Storage:** Store in a cool, dry place. Store in a well-ventilated area. Do not store in areas containing flammable or combustible products. Store below 45 °C. Store away from heat ignition sources, and open flame in accordance with applicable regulations.

## SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

### Engineering Control:

COMPONENT	TWA - 8 Hrs	STEL	CEILING
Butyl Acetate	200 ppm	N/A	N/A
Ethyl Acetate	400 ppm	N/A	N/A
Dimethyl Ethe	1000 ppm	N/A	N/A

### Personal Protective Equipment:

<b>Respiratory protection</b>	Provide adequate ventilation. Observe workplace exposure limits and minimize the risk of inhalation of vapors. At work in confined or poorly ventilated spaces, respiratory protection with air supply must be used.
<b>Hand protection</b>	None required under normal use. For prolonged or repeated hand exposure, gloves are recommended.
<b>Eye protection</b>	Wear splash-proof eye goggles to prevent any possibility of eye contact.
<b>Skin &amp; body protection</b>	Wear appropriate clothing to prevent any possibility of skin contact.

**Hygiene Measures:** DO NOT smoke in work area. Wash at the end of each work shift and before eating, smoking and using the toilet.

### Other precautions:

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State</b>	Liquid
<b>Color</b>	Black
<b>Odor</b>	Organic solvent smell
<b>PH Value</b>	N/A
<b>Boiling Point</b>	-0.5°C
<b>Decomposition Temperature</b>	N/A
<b>Flash Point</b>	-21.7°C (Without propellant) / Test method: closed cup
<b>Auto-ignition Temperature</b>	N/A

<b>Vapor Pressure</b>	N/A
<b>Vapor Density</b>	2.11
<b>Explosion Limits</b>	1.8%~8.4%
<b>Density</b>	0.790
<b>Solubility</b>	Miscible in most of aliphatic, aromatic, hydrocarbon organic solvent, insoluble in water.

## SECTION 10 – STABILITY AND REACTIVITY

**Stability:** This product is stable at normal temperatures and pressure.

**Possible hazardous reactions occurring under specific conditions:** Strong oxidants (such as nitrate, perchlorate) will increase the risk of fire or explosion.

**Conditions to avoid:** Avoid heat, flames, sparks and other sources of ignition. Minimize contact with material. Containers may rupture or explode if exposed to heat.

**Materials to avoid:** Keep away from strong acids and strong oxidizers.

**Hazardous decomposition products:** Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

## SECTION 11 – TOXICOLOGICAL INFORMATION

### Acute Toxicity:

<b>Inhalation</b>	In high concentrations, vapors are narcotic and may cause headache, fatigue, dizziness and nausea.
<b>Skin Contact</b>	Prolonged contact may cause dryness of the skin. Prolonged or repeated exposure may cause severe irritation.
<b>Eye Contact</b>	Irritation of eyes and mucous membranes.
<b>Ingestion</b>	Swallowing concentrated chemical may cause severe internal injury. May cause nausea, headache, dizziness, intoxication and diarrhoea.

### Chronic Toxicity:

Testing not conducted. See other toxicity data.

## SECTION 12 – ECOLOGICAL INFORMATION


**Possible environmental effects:** No data is currently available.

**Environmental mobility:** Highly volatile and will rapidly evaporate to the air.

## SECTION 13 – DISPOSAL CONSIDERATIONS

**Waste disposal:** Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution. The container for this product can present explosion or fire hazards, even when emptied! To avoid risk of injury, do not cut, puncture or weld on or near this container. Since the emptied containers retain product residue, follow product insert warnings even after container is emptied.

## SECTION 14 – TRANSPORT INFORMATION

<b>Proper Shipping Name (PSN)</b>	Aerosols, flammable, (each not exceeding 1 L capacity)
<b>IMDG / IATA Class</b>	2.1
<b>UN Number</b>	UN1950
<b>Label</b>	
<b>Marine Pollutant</b>	No

## **SECTION 15 – REGULATORY INFORMATION**

This product, as supplied, is regulated as a hazardous waste by the Taiwan Environmental Protection Agency (EPA) under environmental protection related regulations. Comply with state and local regulations for disposal. If you are unsure of the regulations, contact your local Public Health Department, or the local office of the EPA.

Taiwan related regulations listed as below:

1. Regulations Governing Road Traffic Safety
2. Enforcement Rules of the Labor Safety and Health Act
3. Regulations for High Pressure Gas Labor Safety

## **SECTION 16 – OTHER INFORMATION**

### **PRECAUTION: READ THIS MSDS BEFORE USE**

As of the date of preparation of this document, the foregoing information is believed to be accurate and is provided in good faith to comply with applicable federal and state law(s). However, no warranty or representation with respect to such information is intended or given.