

Material Safety Data Sheet

Date of Revise: 2015.06.18

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product Name: PUFF DINO HIGH HEAT RESISTANT SPRAY PAINT 400ml
Item Code: PP20, PP21, DP40, DP-156, DP-157
Supplier: PUFFDINO TRADE CO., LTD.
 25, 23 Road, Industrial Park,
 Taichung City 40850, Taiwan
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SECTION 2 – COMPOSITION / INFORMATION ON INGREDIENTS

<u>COMPONENT</u>	<u>CAS NO.</u>	<u>PERCENTAGE</u>
Butyl Acetate (BAC)	123-86-4	15% - 20%
Methyl Ethyl Ketone (MEK)	78-93-3	5% - 10%
Silicone Resin	-----	20% - 25%
Dimethyl Ether	115-10-6	45% - 50%

SECTION 3 – HAZARDS IDENTIFICATION

Adverse Health Effects:

Inhalation	Overexposure by inhalation to very high concentrations may cause irritation of nose, throat, and lungs.
Skin Contact	Prolonged and repeated contact may cause irritation and dermatitis.
Eye Contact	May cause eye irritation.
Ingestion	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:

Inhalation	If high concentrations are inhaled, immediately remove exposed person to fresh air. Get medical attention if any discomfort continues.
Skin Contact	Wash with soap and water. Remove contaminated clothing.
Eye Contact	Flush eyes with large amounts of water for 15 minutes. Get medical attention.
Ingestion	Ingestion is not considered a potential route of exposure. If adverse situations occur, immediately rinse mouth and drink plenty of water or milk. DO NOT induce vomiting. Contact a physician immediately.

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 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: Apply water spray from a safe distance to cool container and protect surrounding area. 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: Wear suitable protective clothing, gloves and eye/face protection. Evacuate personnel to safe areas. DO NOT smoke in spilled area. Wash hands thoroughly after handling.

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	150 ppm	200 ppm	-----
Methyl Ethyl Ketone	200 ppm	250 ppm	-----
Dimethyl Ether	1000 ppm	-----	-----

Personal Protective Equipment:

Respiratory Protection	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.
Hand Protection	None required under normal use. For prolonged or repeated hand exposure, gloves are recommended.
Eye Protection	Wear splash-proof eye goggles to prevent any possibility of eye contact.
Skin & Body Protection	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

Physical State	Liquid
Color	Various, according to color of cap
Odor	Organic solvent smell
PH Value	N/A
Boiling Point	N/A
Decomposition Temperature	N/A
Flash Point	-23°C (-9.4°F) / Test method: closed cup

Auto-ignition Temperature	350°C
Vapor Pressure	3892 mmHg @ 20°C (68°F)
Vapor Density	1.60 (Air=1)
Explosion Limits	1.7% - 7.6%
Density	0.90 - 1.05
Solubility	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:

Inhalation	In high concentrations, vapors are narcotic and may cause headache, fatigue, dizziness and nausea.
Skin Contact	Prolonged contact may cause dryness of the skin. Prolonged or repeated exposure may cause severe irritation.
Eye Contact	Irritation of eyes and mucous membranes.
Ingestion	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

Proper Shipping Name (PSN)	Aerosols, flammable, (each not exceeding 1 L capacity)
IMDG / IATA Class	2.1
UN Number	UN1950
Label	
Marine Pollutant	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.