

# Safety Data Sheet

Date of Revise: 2023/09/05

## Section 1. Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product Identity 【PUFF DINO】 191 LUBRICANT

Alternate Names DI10、DI20

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use See Technical Data Sheet.

### 1.3. Details of the supplier of the safety data sheet

Company Name PUFFDINO TRADE CO., LTD.

No.25, Gongyequ 23rd Rd, Nantun Dist, Taichung City 40850, Taiwan

Telephone +886-4-23503555

Fax +886-4-23501867

E-mail service@puffdino.com

### 1.4. Emergency telephone number

Emergency phone # +886-4-23503555

## Section 2. Hazard identification of the product

### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Flam. Aerosols 1 - H222

Pressure Gas - H280

Flam. Liq. 3 - H226

Specific target organ toxicity - repeated exposure 1

### 2.2. Label elements

According to Regulation (EC) No 1272/2008



**Danger**

H222 Extremely flammable aerosol.

H229 Pressurized container: may burst if heated.

H226 Flammable liquid and vapor.

H280 Contains gas under pressure; may explode if heated.

H372 Causes damage to organs through prolonged or repeated exposure.

**Precautionary Statements - Prevention:**

- P210 Keep away from heat / sparks / open flames / hot surfaces - No smoking.
- P211 Do not spray on an open flame or other ignition source.
- P233 Keep container tightly closed.
- P235 Keep cool.
- P240 Ground / bond container and receiving equipment.
- P241 Use explosion-proof electrical / ventilating / light / equipment.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P251 Pressurized container: Do not pierce or burn, even after use.
- P260 Do not breathe mist / vapors / spray.
- P262 Do not get in eyes, on skin, or on clothing.
- P264 Wash thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P280 Wear protective gloves / eye protection / face protection.

**Precautionary Statements - Response:**

- P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor / physician.
- P303+P361+P353 IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P314 Get Medical advice / attention if you feel unwell.
- P331 Do NOT induce vomiting.
- P370+P378 In case of fire: Use extinguishing media listed in section 5 of SDS for extinction.
- P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

**Precautionary Statements - Storage:**

- P403+P235 Store in a well ventilated place. Keep cool.
- P410+P403 Protect from sunlight. Store in a well ventilated place.
- P501 Dispose of contents/container to ...

**Precautionary Statements - Disposal:**

- No CLP disposal statements
- See Technical Data Sheet.

**2.3. Other hazards**

- This product contains no PBT/vPvB chemicals.
- May displace oxygen and cause rapid suffocation.

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## **Section 3. Composition/information on ingredients**

**3.1. Mixtures**

- If the product contains substances that present a hazard according to Regulation (EC) No. 1272/2008 [CLP/GHS] (as amended by (EU) 2015/830), they are listed below.

<b>Ingredient/Chemical Designations</b>	<b>Weight %</b>	<b>EC No. 1272/2008 Classification*</b>
<b>Kerosene (petroleum)</b> <b>CAS Number:</b> 8008-20-6 <b>EC No.</b> 232-366-4 <b>Index No.:</b> 649-404-00-4	21 - 23	Asp. Tox. 1;H304
<b>Sulfonic acids, petroleum, barium salts</b> <b>CAS Number:</b> 61790-48-5 <b>EC No.</b> <b>Index No.:</b>	16 - 18	Not Classified
<b>Distillates (petroleum), hydrotreated light</b> <b>CAS Number:</b> 64742-47-8 <b>EC No.</b> 265-149-8 <b>Index No.:</b> 649-422-00-2	3 - 5	Asp. Tox. 1;H304
<b>Stoddard solvent</b> <b>CAS Number:</b> 8052-41-3 <b>EC No.</b> 232-489-3 <b>Index No.:</b> 649-345-00-4	2 - 4	STOT RE 1;H372 Asp. Tox. 1;H304
<b>L.P.G. (liquified petroleum gas)</b> <b>CAS Number:</b> 68476-85-7 <b>EC No.</b> 270-704-2 <b>Index No.:</b> 649-202-00-6	47 - 50	Press. Gas;H280 Flam. Gas 1;H220

\*The full texts of the phrases are shown in Section 16.

## Section 4. First aid measures

### 4.1. Description of first aid measures

<b>General</b>	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
<b>Inhalation</b>	Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious, place in the recovery position and obtain immediate medical attention. Give nothing by mouth.
<b>Eye</b>	Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.
<b>Skin</b>	Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.
<b>Ingestion</b>	If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

### 4.2. Most important symptoms and effects, both acute and delayed

<b>Overview</b>	Exposure to solvent vapor concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic
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contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage. See section 2 for further details.

**Chronic effects**      Treat symptomatically

#### **4.3. Indication of any immediate medical attention and special treatment needed**

**Notes to physician**      No available information

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## **Section 5. Fire-fighting measures**

### **5.1. Extinguishing media**

Recommended extinguishing media; alcohol resistant foam, CO<sub>2</sub>, powder, water spray.

Do not use: water jet.

### **5.2. Special hazards arising from the substance or mixture**

Hazardous decomposition: Carbon Dioxide, Carbon Monoxide

Keep away from heat / sparks / open flames / hot surfaces - No smoking.

Keep container tightly closed.

Keep cool.

Ground / bond container and receiving equipment.

Use explosion-proof electrical / ventilating / light / equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Do not breathe mist / vapors / spray.

Do not get in eyes, on skin, or on clothing.

### **5.3. Advice for fire-fighters**

Put on appropriate personal protective equipment (see section 8).

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## **Section 6. Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

Put on appropriate personal protective equipment (see section 8).

### **6.2. Environmental precautions**

Do not allow spills to enter drains or waterways.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

### **6.3. Methods and material for containment and cleaning up**

Small Spill: Absorb spill with vermiculite or other inert material, then place in a container for chemical waste.

Large Spill: Flush spill area with water spray. Prevent runoff from entering drains, sewers, or streams. Dike for late disposal.

### **6.4 Reference to other sections**

See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

## Section 7. Handling and storage

### 7.1. Precautions for safe handling

Store in cool, dry ventilated area. Avoid excessive heat. Always keep containers tightly closed when not in use.

Avoid contact with eyes. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

See section 2 for further details. - [Prevention]:

### 7.2. Conditions for safe storage, including any incompatibilities

Incompatible materials: No data available.

See section 2 for further details. - [Storage]:

### 7.3. Specific end use(s)

No data available.

## Section 8. Exposure controls and personal protection

### 8.1. Control parameters

#### Exposure

CAS No.	Ingredient	Source	Value
8008-20-6	Kerosene (petroleum)	OSHA	No Established Limit
		ACGIH	TWA: 200 mg/m <sup>3</sup>
		NIOSH	TWA 100 ppm (1800 mg/m <sup>3</sup> )
61790-48-5	Sulfonic acids, petroleum, barium salts	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
64742-47-8	Distillates (petroleum), hydrotreated light	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
8052-41-3	Stoddard solvent	OSHA	TWA 500 ppm (2900 mg/m <sup>3</sup> )
		ACGIH	TWA: 290 mg/m <sup>3</sup> STEL: 580 mg/m <sup>3</sup>
		NIOSH	TWA 350 mg/m <sup>3</sup> C 1800 mg/m <sup>3</sup> [15-minute]
68476-85-7	L.P.G. (liquefied petroleum gas)	OSHA	TWA 1000 ppm (1800 mg/m <sup>3</sup> )
		ACGIH	Ensure Minimal Oxygen Content (ACGIH appendix F)
		NIOSH	TWA 1000 ppm (1800 mg/m <sup>3</sup> )

### 8.2. Exposure controls

#### Respiratory

If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.

#### Eyes

Protective safety glasses recommended

#### Skin

Avoid skin contact. Protective gloves recommended.

#### Engineering Controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.

#### Other Work Practices

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details.

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## Section 9. Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Appearance	Brown Liquid
Odor	Lemon scent
Odor threshold	No available information
pH	No available information
Melting point / freezing point	No available information
Initial boiling point and boiling range	130°C
Flash Point	-60°C (-76°F) / Test method: closed cup
Evaporation rate (Ether = 1)	No available information
Flammability (solid, gas)	Gas
Upper/lower flammability or explosive limits	<b>Lower Explosive Limit:</b> 0.7% <b>Upper Explosive Limit:</b> 5.0%
Vapor pressure (Pa)	<1 kPa (38°C)
Vapor Density	4.5 (Air=1)
Relative density	0.82
Solubility in Water	Insoluble
Partition coefficient n-octanol/water (Log Kow)	No available information
Auto-ignition temperature	210°C
Decomposition temperature	No available information
Viscosity (cSt)	No available information

### 9.2. Other information

No available information

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## Section 10. Stability and reactivity

### 10.1. Reactivity

Hazardous Polymerization will not occur.

### 10.2. Chemical stability

Stable under normal circumstances.

### 10.3. Possibility of hazardous reactions

No data available.

### 10.4. Conditions to avoid

Avoid temperatures exceeding the flash point. Contact with incompatible materials.

### 10.5. Incompatible materials

Strong oxidizing agents

### 10.6. Hazardous decomposition products

Carbon Dioxide, Carbon Monoxide

## Section 11. Toxicological information

### 11.1. Information on toxicological effects

#### Product

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

	Classification	Hazard Description
Acute toxicity (oral)	--	Not Applicable
Acute toxicity (dermal)	--	Not Applicable
Acute toxicity (inhalation)	--	Not Applicable
Skin corrosion/irritation	--	Not Applicable
Serious eye damage/irritation	--	Not Applicable
Respiratory sensitization	--	Not Applicable
Skin sensitization	--	Not Applicable
Germ cell mutagenicity	--	Not Applicable
Carcinogenicity	--	Not Applicable
Reproductive toxicity	--	Not Applicable
STOT-single exposure	--	Not Applicable
STOT-repeated exposure	1	Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard	--	Not Applicable

#### Components

##### Acute toxicity

Component	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
Kerosene (petroleum) - (8008-20-6)	> 5,000.00, Rat - Category: NA	>2,000.00, Rabbit - Category: 5	No data available	No data available	No data available
Sulfonic acids, petroleum, barium salts – (61790-48-5)	No data available	No data available	No data available	No data available	No data available
Distillates (petroleum), hydrotreated light - (64742-47-8)	> 5,000.00, Rat - Category: NA	>2,000.00, Rabbit - Category: 5	No data available	No data available	No data available
Stoddard solvent - (8052-41-3)	> 5,000.00, Rat - Category: NA	No data available	No data available	5.50, Rat - Category: NA	No data available
L.P.G. (liquified petroleum gas) - (68476-85-7)	No data available	No data available	658.00, Rat - Category: NA	No data available	No data available

**Carcinogen Data**

CAS No.	Component	Source	Value
8008-20-6	Kerosene (petroleum)	OSHA	Regulated Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
61790-48-5	Sulfonic acids, petroleum, barium salts	OSHA	Regulated Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
64742-47-8	Distillates (petroleum), hydrotreated light	OSHA	Regulated Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No
8052-41-3	Stoddard solvent	OSHA	Regulated Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
68476-85-7	L.P.G. (liquified petroleum gas)	OSHA	Regulated Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;

**Section 12. Ecological information****12.1. Toxicity**

No additional information provided for this product. See Section 3 for chemical specific data.

**Aquatic Ecotoxicity**

Component	96 hr LC50 fish, mg/L	48 hr EC50 crustacea, mg/L	ErC50 algae, mg/L	3 hr IC50 Bacteria, mg/L
Kerosene (petroleum) - (8008-20-6)	5.00, Oncorhynchus mykiss	1.40, Daphnia magna	3.00 (72 hr), Pseudokirchneriella subcapitata	--
Sulfonic acids, petroleum, barium salts – (61790-48-5)	Not Available	Not Available	Not Available	--
Distillates (petroleum), hydrotreated light - (64742-47-8)	20.00, Oncorhynchus mykiss	1.40, Daphnia magna	8.30 (72 hr), Pseudokirchneriella subcapitata	--
Stoddard solvent - (8052-41-3)	Not Available	Not Available	Not Available	--



L.P.G. (liquified petroleum gas) - (68476-85-7)	Not Available	Not Available	Not Available	--
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## 12.2. Persistence and degradability

There is no data available on the preparation itself.

## 12.3. Bioaccumulative potential

Not Measured

## 12.4. Mobility in soil

No data available.

## 12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

## 12.6. Other adverse effects

No data available.

# Section 13. Disposal considerations

## 13.1. Waste treatment methods

Observe all federal, state and local regulations when disposing of this substance.

# Section 14. Transport information

	ADR/RID (Land transport)	IMDG (Sea Transportation)	ICAO-TI/IATA-DGR (Air transport)	ADN (Inland waterway transport)
<b>14.1. UN number</b>	1950	1950	1950	1950
<b>14.2. UN proper shipping name</b>	Aerosols, flammable (each not exceeding 1 L capacity)	Aerosols, flammable (each not exceeding 1 L capacity)	Aerosols, flammable (each not exceeding 1 L capacity)	Aerosols, flammable (each not exceeding 1 L capacity)
<b>14.3. Transport hazard class(es)</b>	2.1	2.1	2.1	2.1
<b>14.4. Packing group</b>	Not Applicable	Not Applicable	Not Applicable	Not Applicable
<b>14.5. Environmental hazards</b>	Not Applicable	Marine Pollutant: No	Not Applicable	Not Applicable

## 14.6. Special precautions for user

No further information

## 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not Applicable

# Section 15. Regulatory information

## **15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

### **EU Legislation**

REGULATION (EU) 2015/830 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

### **National Legislation**

None noted.

## **15.2. Chemical Safety Assessment**

No Chemical Safety Assessment has been carried out.

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## **Section 16. Other information**

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

H220 Extremely flammable gas.

H280 Contains gas under pressure; may explode if heated.

H304 May be fatal if swallowed and enters airways.

H372 Causes damage to organs through prolonged or repeated exposure.

**This is the first version in the GHS SDS format. Listings of changes from previous versions in other formats are not applicable.**

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

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