

Safety Data Sheet

Date of Revise: 2020/1/30

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

1.1. Product identifier

Product Identity PUFF DINO LEMON ADHESIVE CLEANER
Alternate Names CG22

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

1.4. Emergency telephone number

Emergency phone # +886-4-23503555

Section 2. Hazard identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Flammable aerosols 1	H222 Extremely flammable aerosol H229 Pressurized container: may burst if heated
Gases under pressure	H280 Contains gas under pressure; may explode if heated
Flammable liquids 3	H226 Flammable liquid and vapour
Acute toxicity, dermal 3	H311 Toxic in contact with skin
Skin corrosion/irritation 2	H315 Causes skin irritation
Skin sensitization	H317 May cause an allergic skin reaction
Reproductive toxicity 2	H361 Suspected of damaging fertility or the unborn child
Specific target organ toxicity - repeated exposure 2	H373 May cause damage to organs through prolonged or repeated exposure
Hazardous to the aquatic environment, acute toxicity 1	H400 Very toxic to aquatic life
Hazardous to the aquatic environment, chronic toxicity 1	H410 Very toxic to aquatic life with long lasting effects

2.2. Label elements

According to Regulation (EC) No 1272/2008



Danger

Precautionary Statements - Prevention:

- P201 Obtain special instructions before use.
- 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.
- P240 Ground/Bond container and receiving equipment.
- P241 Use explosion-proof electrical/ventilating/lighting/... /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.
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P264 Wash thoroughly after handling.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/eye protection/face protection.

Precautionary Statements - Response:

- P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
- P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P308 + P313 IF exposed or concerned: Call a POISON CENTER or doctor/physician.
- P312 Call a POISON CENTER or doctor/physician if you feel unwell.
- P314 Get medical advice/attention if you feel unwell.
- P321 Specific treatment (see on this label).
- P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
- P362 + P364 Take off contaminated clothing and wash before reuse.
- P370 + P378 In case of fire: Use alcohol resistant foam, CO₂, powder, water spray for extinction.
- P391 Collect spillage.

Precautionary Statements - Storage:

- P403 + P235 Store in a well-ventilated place. Keep cool.
- P405 Store locked up.
- P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Precautionary Statements - Disposal:

- P501 Dispose of contents/container in accordance with local/national regulations.
- See Technical Data Sheet.

2.3. Other hazards

This product contains no PBT/vPvB chemicals.

Section 3. Composition/information on ingredients

3.2. 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.

Ingredient/Chemical Designations	Weight %	EC No. 1272/2008 Classification*
Hexane CAS Number: 110-54-3 EC No. 203-777-6 Index No.: 601-037-00-0	10 – 20	Flam. Liq. 2;H225 Repr. 2;H361 Asp. Tox. 1;H304 STOT RE 2;H373 Skin Irrit. 2;H315 STOT SE 3;H336 Aquatic Chronic 2;H411
d-limonene CAS Number: 5989-27-5 EC No. 227-813-5 Index No.: 601-029-00-7	30 - 40	Flam. Liq. 3;H226 Skin Irrit. 2;H315 Skin Sens. 1;H317 Aquatic Acute 1;H400 Aquatic Chronic 1;H410
IPA CAS Number: 67-63-0 EC No. 200-661-7 Index No.: 603-117-00-0	5 - 10	Flam. Liq. 2;H225 Eye Irrit. 2;H319 STOT SE 3;H336
L.P.G. (liquified petroleum gas) CAS Number: 68476-85-7 EC No. 270-704-2 Index No.: --	35 - 45	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

General	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
Inhalation	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.
Eye contact	Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.
Skin contact	Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.
Ingestion	If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

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

Overview	No specific symptom data available.
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Treat symptomatically. See section 2 for further details.

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

Notes to physician Treat symptomatically.

Section 5. Fire-fighting measures

5.1. Extinguishing media

Recommended extinguishing media; alcohol resistant foam, CO₂, powder, water spray.

Do not use: water jet.

5.2. Special hazards arising from the substance or mixture

Contains gas under pressure; may explode if heated

Hazardous decomposition: Carbon Dioxide, Carbon Monoxide

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

Keep container tightly closed.

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

Use only non-sparking tools.

Take precautionary measures against static discharge.

Avoid breathing dust/fume/gas/mist/vapors/spray.

5.3. Advice for fire-fighters

Cool closed containers exposed to fire by spraying them with water. Do not allow run off water and contaminants from firefighting to enter drains or water ways.

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

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: Strong acids and oxidizing agents

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

7.3. Specific end use(s)

No available information

Section 8. Exposure controls/personal protection

8.1. Control parameters

Exposure			
CAS No.	Ingredient	Source	Value
110-54-3	Hexane	OSHA	TWA 500 ppm (1800 mg/m ³)
		ACGIH	TWA: 20 ppm
		NIOSH	TWA 50 ppm (180 mg/m ³)
5989-27-5	d-limonene	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
67-63-0	IPA	OSHA	TWA 400 ppm (980 mg/m ³) STEL 500 ppm
		ACGIH	TWA: 200 ppm STEL: 400 ppm
		NIOSH	TWA 400 ppm (980 mg/m ³) ST 500 ppm (1225 mg/m ³)
68476-85-7	L.P.G. (liquefied petroleum gas)	OSHA	TWA 1000 ppm (1800 mg/m ³)
		ACGIH	Ensure Minimal Oxygen Content (ACGIH appendix F)
		NIOSH	TWA 1000 ppm (1800 mg/m ³)

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.

Section 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Transparent yellow Liquid
Odor	Lemon scent

Odor threshold	40 ppm
pH	No available information
Melting point / freezing point	No available information
Initial boiling point and boiling range	No available information
Flash Point	-60°C (114°F)/Test method: closed cup
Evaporation rate (Ether = 1)	7.1
Flammability (solid, gas)	Gas
Upper/lower flammability or explosive limits	Lower Explosive Limit: 1.1% Upper Explosive Limit: 7.5%
Vapor pressure	12.4 kPa (25°C)
Vapor Density (Air=1)	2.97
Relative density	0.8
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	No available information

9.2. Other information

No other relevant information.

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 available information

10.4. Conditions to avoid

Do not expose to heat or store at temperature above 120°F.

10.5. Incompatible materials

Strong acids and oxidizing agents

10.6. Hazardous decomposition products

Oxides of Carbon

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	Category	Hazard Description
Acute toxicity (oral)	--	Not Applicable
Acute toxicity (dermal)	3	Toxic in contact with skin.
Acute toxicity (inhalation)	--	Not Applicable
Skin corrosion/irritation	2	Causes skin irritation.

Serious eye damage/irritation	--	Not Applicable
Respiratory sensitization	--	Not Applicable
Skin sensitization	1	May cause an allergic skin reaction.
Germ cell mutagenicity	--	Not Applicable
Carcinogenicity	--	Not Applicable
Reproductive toxicity	2	Suspected of damaging fertility.
STOT-single exposure	--	Not Applicable
STOT-repeated exposure	2	May cause 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
Hexane (110-54-3)	25,000.00, Rat - Category: NA	3,000.00, Rabbit - Category: 5	No data available	No data available	48,000.00, Rat - Category: NA
d-Limonene (5989-27-5)	>2,000.00, Rat - Category: 5	> 5,000.00, Rabbit - Category: NA	No data available	No data available	No data available
IPA (67-63-0)	5,840.00, Rat - Category: NA	16.40, Rabbit - Category: 1	72.60, Rat - Category: NA	No data available	No data available
L.P.G. (liquified petroleum gas) - (68476-85-7)	No data available	No data available	No data available	No data available	No data available

Carcinogen Data

CAS No.	Component	Source	Value
110-54-3	Hexane	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
5989-27-5	d-Limonene	OSHA	Regulated Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes; Group 4: No
67-63-0	IPA	OSHA	Regulated Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes; 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
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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	3hr IC50 Bacteria, mg/L
Hexane - (110-54-3)	12.51, Oncorhynchus mykiss	21.85, Daphnia magna	9.285 (72 hr), Pseudokirchneriella subcapitata	Not Available
d-Limonene - (5989-27-5)	0.72, Pimephales promelas	0.307, Daphnia magna	0.32 (72 hr), Pseudokirchneriella subcapitata	Not Available
IPA - (67-63-0)	10,000.00, Pimephales promelas	Not Available	Not Available	Not Available
L.P.G. (liquified petroleum gas) - (68476-85-7)	Not Available	Not Available	Not Available	Not Available

12.2. Persistence and degradability

There is no data available on the preparation itself.

12.3. Bioaccumulative potential

No available information

12.4. Mobility in soil

No available information

12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

12.6. Other adverse effects

No available information

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)
14.1. UN number	1950	1950	1950	Not Applicable
14.2. UN proper	Aerosols, flammable (each not exceeding 1 L capacity)	Aerosols, flammable (each not exceeding 1 L capacity)	Aerosols, flammable (each not exceeding 1 L capacity)	Not Applicable

shipping name				
14.3. Transport hazard class(es)	2.1	Not Applicable Sub Class: Not Applicable	Not Applicable	Not Applicable
14.4. Packing group	Not Applicable	Not Applicable	Not Applicable	Not Applicable
14.5. Environmental hazards	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).

US federal regulations

The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

Toxic Substance Control Act (TSCA): All components of this material are either listed or exempt from listing on the TSCA Inventory.

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA (311/312) REPORTABLE GHS HAZARD CLASSES: Flammable (gases, aerosols, liquids, or solids), Gas under Pressure, Simple Asphyxiant.

SARA (313) TOXIC RELEASE INVENTORY: This material contains no chemicals subject to the supplier notification requirements of the SARA 313 Toxic Release Program.

National Legislation

None noted.

Taiwan (R.O.C) Legislation

Occupational Safety and Health Act, Toxic Chemical Substance Control Act, Standards of Permissible Exposure Limits of Airborne Hazardous Substances in Workplace, Regulations for the Labeling and Hazard Communication of Hazardous Chemicals, Regulations Governing Designating and Handling of Priority Management Chemicals, Methods and Facilities Standards for the Storage, Clearance and Disposal of Industrial Waste, Public Hazardous Substances & Flammable Pressurized Gases Establishment Standards & Safety Control Regulations.

15.2. Chemical Safety Assessment

No Chemical Safety Assessment has been carried out.

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.

H225 Highly flammable liquid and vapor.

H226 Flammable liquid and vapor.

H280 Contains gas under pressure; may explode if heated.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H336 May cause drowsiness and dizziness.

H361 Suspected of damaging fertility.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

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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