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Safety Data Sheet

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

1.1. Product identifier

Product Identity PUFF DINO ROLLER CHAIN CLEANER

Alternate Names DK42

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

Acute toxicity, dermal 2 H310 Fatal in contact with skin

Skin corrosion/irritation 2 H315 Causes skin irritation

Serious eye damage/eye H319 Causes serious eye irritation

irritation 2

Reproductive toxicity 2 H361 Suspected of damaging fertility or the unborn child

Specific target organ H336 May cause drowsiness or dizziness

toxicity - single exposure 3

Specific target organ H373 May cause damage to organs through prolonged or repeated exposure

toxicity - repeated

exposure 2

Hazardous to the aquatic H411 Toxic to aquatic life with long lasting effects

environment, chronic

toxicity 2

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.
- P251 Pressurized container: Do not pierce or burn, even after use.
- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P261 Avoid breathing dust/fume/gas/mist/vapours/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.
- P271 Use only outdoors or in a well-ventilated area.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/eye protection/face protection.

Precautionary Statements - Response:

- P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
- P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308 + P313 IF exposed or concerned: Get medical advice/attention.
- P312 Call a POISON CENTER or doctor/physician if you feel unwell.
- P314 Get medical advice/attention if wou feel unwell.
- P332 + P313 If skin irritation occurs: Get medical advice/attention.
- P337 + P313 If eye irritation persists: Get medical advice/attention.
- P361 + P364 Take off immediately all contaminated clothing and wash it before reuse.
- P362 + P364 Take off contaminated clothing and wash before reuse.
- P391 Collect spillage.

Precautionary Statements - Storage:

- P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
- P405 Store locked up.
- P410 + P403 Protect from sunlight. Store in a well-ventilated place.
- 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			Flam. Liq. 2;H225	
CAS Number:	110-54-3		Repr. 2;H361f	
EC No.	203-777-6		Asp. Tox. 1;H304	
Index No.:	601-037-00-0	25 - 50	STOT RE 2;H373	
			Skin Irrit. 2;H315	
			STOT SE 3;H336	
			Aquatic Chronic 2;H411	
Isopropyl Alcohol			Flow Lin 2d 1995	
CAS Number:	67-63-0	40. 25	Flam. Liq. 2;H225	
EC No.	200-661-7	10 - 25	Eye Irrit. 2;H319	
Index No.:	603-117-00-0		STOT SE 3;H336	
Propane				
CAS Number:	74-98-6	05 50		
EC No.	200-827-9	25 - 50	Flam. Gas 1;H220	
Index No.:	601-003-00-5			

^{*}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 Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized

contact 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 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 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.

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.

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
	Hexane	OSHA	TWA 500 ppm (1800 mg/m³)
110-54-3		ACGIH	TWA: 20 ppm
		NIOSH	TWA 50 ppm (180 mg/m³)
	Isopropyl Alcohol	OSHA	TWA 400 ppm (980 mg/m³) STEL 500 ppm
67-63-0		ACGIH	TWA: 200 ppm STEL: 400 ppm
67-63-0		NIOSH	TWA 400 ppm (980 mg/m³) ST 500 ppm (1225
			mg/m³)
	Propane	OSHA	TWA 1000 ppm (1800 mg/m³)
74-98-6		ACGIH	Ensure Minimal Oxygen Content (ACGIH appendix F)
		NIOSH	TWA 1000 ppm (1800 mg/m³)

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 Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of

Controls 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 Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using

Practices 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 Liquid
Odor Odorless

Odor threshold No available information

pH No available informationMelting point / freezing point No available information

Initial boiling point and boiling range

No available information

Flash Point -60°C (-76°F)/Test method: closed cup

Evaporation rate (Ether = 1) No available information
Flammability (solid, gas) No available information

Upper/lower flammability or explosive limits Lower Explosive Limit: 1.5%

Upper Explosive Limit: 8.0%

Vapor pressure 14-18 kPa at 25°C

Vapor Density (Air=1)

Relative density

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) 2		Fatal in contact with skin.
Acute toxicity (inhalation)		Not Applicable
Skin corrosion/irritation	2	Causes skin irritation.

Serious eye	2	Causes serious eye irritation.
damage/irritation 2		
Respiratory sensitization		Not Applicable
Skin sensitization		Not Applicable
Germ cell mutagenicity		Not Applicable
Carcinogenicity		Not Applicable
Reproductive toxicity	2	Suspected of damaging fertility or the unborn child
STOT-single exposure	3	May cause drowsiness or dizziness.
STOT-repeated exposure		May cause damage to organs through prolonged or repeated
	2	exposure.
Aspiration hazard		Not Applicable

Components

Acute toxicity

Component	Oral LD50,	Skin LD50,	Inhalation	Inhalation	Inhalation
	mg/kg	mg/kg	Vapor LC50,	Dust/Mist LC50,	Gas LC50,
			mg/L/4hr	mg/L/4hr	ppm
/// - /	25,000.00, Rat	3,000.00,	No data	No data	48,000.00,
Hexane - (110-54- 3)	- Category: NA	Rabbit -	available	available	Rat -
		Category: 5			Category: NA
Isopropyl Alcohol -	5,840.00, Rat -	16.40, Rabbit -	72.60, Rat -	No data	No data
(67-63-0)	Category: NA	Category: 1	Category: NA	available	available
Propane - (74-98-	No data	No data	658.00, Rat -	No data	No data
6)	available	available	Category: NA	available	available

Carcinogen Data

CAS No.	Component	Source	Value	
	Hexane	OSHA	Regulated Carcinogen: No	
110-54-3		NTP	Known: No; Suspected: No	
110-54-5		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group	
		171110	3: No; Group 4: No	
	Isopropyl Alcohol	OSHA	Regulated Carcinogen: No	
67-63-0		NTP	Known: No; Suspected: No	
07-03-0		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group	
			3: Yes; Group 4: No	
	Propane	OSHA	Regulated Carcinogen: No	
74-98-6		NTP	Known: No; Suspected: No	
		IADO	Group 1: No; Group 2a: No; Group 2b: No; Group	
		IARC	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,	48 hr EC50 crustacea,	ErC50 algae,	3hr IC50 Bacteria,
Component	mg/L	mg/L	mg/L	mg/L
	12.51,	21.85, Daphnia	9.285 (72 hr),	
Hexane - (110-54-	Oncorhynchus	magna	Pseudokirchneriella	Not Available
3)	mykiss		subcapitata	
	10,000.00,	Not Available	Not Available	
Isopropyl Alcohol -	Pimephales			Not Available
(67-63-0)	promelas			
Propane - (74-98-	49.90, Fish	69.43, Daphnia sp	19.37 (72 hr), Algae	Not Available
6)				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	IMDG (Sea	ICAO-TI/IATA-DGR	ADN (Inland
	transport)	Transportation)	(Air transport)	waterway transport)
14.1. UN	1050	1050	1050	Not Applicable
number	1950	1950	1950	Not Applicable
14.2. UN	Aerosols, flammable	Aerosols, flammable	Aerosols, flammable	
proper	•	·	·	Not Appliable
shipping	(each not exceeding 1	(each not exceeding 1	(each not exceeding 1	Not Applicable
name	L capacity)	L capacity)	L capacity)	
14.3.		Not Applicable		
Transport	0.4	110t/ippilodolo	Nat Analiaabla	Nat Applicable
hazard	2.1	Sub Class: Not	Not Applicable	Not Applicable
class(es)		Applicable		
14.4. Packing	Not Applicable	Not Applicable	Not Applicable	Not Applicable
group	Not Applicable	Not Applicable	Not Applicable	Not Applicable
14.5.				
Environmental	Not Applicable	Marine Pollutant: No	Not Applicable	Not Applicable
hazards				

14.6. Special precautions for user

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.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness and dizziness.

H361f Suspected of damaging fertility.

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

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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