

CENTRAL GLASS Co., Ltd.

Issued: March 23, 2009
Revised: July 1, 2014

Safety Data Sheet

1. Identification

Product name: CEFBON P-30
Product code: URC-3301
General Use: Solid lubricant
Product Description: No information
SDS No.: URC-3301

Manufacturer

Company Name: Central Glass Co., Ltd.
Address: Kowa Hitotsubashi Bldg., 3-7-1 Kanda Nishikicho, Chiyoda-ku,
Tokyo 101-0054, Japan

Section concerned: Electronic Materials Sales Department
Person in charge: General Manager, Electronic Materials Sales Department
Phone: 81-3-3259-7267
Fax: 81-3-3259-7363
Emergency Phone: 81-3-3259-7267

2. Hazard identification

GHS classification

Skin Corrosion/Irritation: Category 3

GHS label elements

Symbol

No symbols.

Signal word

Warning

Hazard statement

Causes mild skin irritation

Precautionary statements

Prevention

Not applicable.

Response

If skin irritation occurs, get medical advice/attention.

Storage

No information..

Disposal

No information.

Other hazards

Similar to polytetrafluoroethylene. Heating in excess of 300°C generate hazardous gases such as hydrogen fluoride and carbon monoxide.

3. Composition/information on ingredients

Substance/mixture: Substance
Chemical name: Graphite Fluoride
Synonym: No information
Chemical Formula: $(CF_x)_n$
CAS NO.: 51311-17-2

4. First-aid measures²⁾

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|-----------------------------|--|
| Inhalation: | Move the subject into fresh air and get medical aid. |
| Eye contact: | Immediately flush eyes with plenty of water for at least 15 minutes. |
| Skin contact: | Immediately flush skin with large amounts of water. |
| Ingestion: | Gargle with water and get medical aid. |
| Protection of first-aiders: | Use appropriate protection (see section 8). |
| Immediate medical advice: | Not applicable. |

5. Fire-fighting measures

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|--------------------------------------|---|
| Flammable properties: | No information. |
| Extinguishing media suitable: | Water, carbon dioxide, dry sand, and foam of alcohol are effective. |
| Special fire-fighting procedures: | Intense heat generated by the fire in the surrounding area can cause decomposition and hazardous gas generation. Spray water to cool. |
| Special protection of fire-fighters: | Fire-fighter should wear self-contained breathing apparatus. Refer to (8. Exposure Control, Personal Protections). |

6. Accidental release measures

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| Personal precautions: | Do not inhale the dust. Use appropriate protection. |
| Environmental precautions: | No information. |
| Methods for cleaning up: | Ventilate area. Sweep up spilled material and collect in plastic containers etc., taking care not to scatter the powder. Wash the area with plenty of water. |

7. Handling and storage

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| Handling: | Wear suitable protective equipment to prevent inhalation, contact, etc. Wash face, hands, mouth, etc. after handling. Pay particular attention to forced draughts or ventilation. Handle containers carefully to prevent breakage. |
| Storage: | Store the containers sealed, away from elevated temperature and humidity, and don't above the ground. |

8. Exposure controls/personal protections

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| Exposure limits: | Japan Society for Occupational Health; Not applicable ³⁾ TLV by ACGIH; Not applicable ⁴⁾ |
| Engineering control: | Ventilation and wash facilities should be provided at the workplace. |
| Personal protection: | |
| Respiratory protection: | Wear a dust protective mask |
| Hand protection: | Wear rubber gloves. |
| Eye protection: | Wear protective glasses or goggles. |
| Skin protection: | Wear protective clothing. |
| Environmental exposure control: | No information |

9. Physical and chemical properties

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|-----------------|----------------|
| Appearance: | Black powder |
| Odor: | No information |
| Odor threshold: | No information |
| pH: | No information |

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|---|----------------|
| Melting point/freezing point: | Not applicable |
| Initial boiling point and boiling range: | Not applicable |
| Flash point: | No information |
| Evaporation rate: | No information |
| Flammability(solid, gas): | No information |
| Upper/lower flammability or explosive limits: | No information |
| Vapor pressure: | Not applicable |
| Vapor density: | Not applicable |
| Relative density: | 2.5-2.7 |
| Solubility(ies): | No information |
| Partition coefficient:n-octanol/water: | Not applicable |
| Auto-ignition temperature: | No information |
| Decomposition temperature: | 300°C |
| Viscosity: | Not applicable |
| Bulk density: | 0.1-0.7 |

10. Stability and reactivity

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| Chemical Stability: | Stable under normal handling conditions. However, decomposes when heated to more than 300°C. In case of continual usage, it is preferable to maintain the temperature below 200°C. Combination with alkali metals, hot concentrated sulfuric acid, hot concentrated nitric acid, strong oxidizing agents, strong reductive agents and basic organic solvents cause decomposition even at temperatures below 200°C, and therefore should be avoided. Exposure to ultraviolet light in a polar solvent atmosphere cause gradual decomposition even at room temperature. ⁵⁾ |
| Conditions to avoid: | Will react with oxidizers. |
| Materials to avoid: | Don't contact with oxidizing agents. |
| Hazardous reaction/decomposition products: | Thermal decomposition produce toxic gases such as hydrogen fluoride and carbon monoxide at temperatures above 300°C. |

11. Toxicological information

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|------------------------------------|---|
| Acute toxicity: | No phenomenon (symptoms, etc.) depending on toxicity was observed through oral ingestion (4 g/kg, mouse). ¹⁾ |
| Skin corrosion/irritation: | No information |
| Serious eye damage/irritation: | No information |
| Respiratory or skin sensitisation: | No information |
| Sensitization: | No information |
| Germ cell mutagenicity: | No information |
| Carcinogenicity: | No information |
| Reproductive toxicity: | No information |
| STOT – single exposure: | No information |
| STOT – repeated exposure: | No information |
| Aspiration hazard: | No information |
| Others: | Avoid skin contact and inhalation. Material with a low content of fluorine may exist and may contain very small amounts of HF attached. |

12. Ecological information

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| Ecotoxicity(aquatic acid terrestrial, where available): | No information |
|---|----------------|

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| Persistence and degradability: | No information |
| Bioaccumulative potential: | No information |
| Mobility in soil: | No information |
| Other adverse effects: | No information |

13. Disposal considerations

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|------------------------|---|
| Disposal of product: | Mix with combustible solvents and incinerate in a furnace equipped with afterburner and scrubber. Neutralize the exhaust gas generated during incineration. |
| Disposal of packaging: | Not applicable. |

14. Transport information

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|---|----------------|
| UN Number: | Not applicable |
| UN Classification: | Not applicable |
| Proper shipping name: | Not applicable |
| UN Packing Group: | Not applicable |
| Special Precautions: | Not applicable |
| Follow all regulations in your country. | |

15. Regulation

Not applicable
Follow all regulations in your country.

16. Other information

Literature cited:

- 1) Y. Yoshida, A. Harada, T. Okamura, K. Kono, M. Watanabe, S. Toyota, and K. Iwasaki, Bull. Osaka Medical School, 23, 14-32 (1977)
- 2) The Sigma Aldrich Library of Chemical Safety Data EDITION II Vol.2, edited by Robert E. Lenga (1988)
- 3) Recommendation of Occupational Exposure Limits (2012), Japan Society for Occupational Health
- 4) ACGIH (for 2012, Japan Association for Working Environment Measurement Corporation
- 5) N. Watanabe and K. Ueno, Bull. Chem. Soc. Jpn., 53, 388-390 (1980)

Corporation

- The contents and other physical and chemical properties shown in this SDS do not imply any guarantee.
- Precautions and other descriptions in this SDS are for normal handling. Special considerations may be required for particular operations.
- Hazard information in this SDS is not exhaustive. Other related documents and information should be consulted before using the product.