



Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Product name: Fluorpowder Wintersteiger gelb
Product No.: 55-640-400

Version: 1.1
Print date: 20.10.2016

1. Section: Identification

1.1 Product identifier

Product name: Fluorpowder Wintersteiger
Product number: 55-640-400, -405, -410, -430, -435, -440
Other names: Perfluorocarbon wax
CAS No.: 308069-13-8

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

Relevant identified uses: Ski wax, laboratory chemical, manufacture of substances.

1.3 Details of the supplier of the material safety data sheet

Company: HWK Kronbichler GmbH
Giessenweg 9a
A-6341 Ebbs
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2. Section: Hazards identification

2.1 Classification of the substance or mixture

Not classified according to regulation (EC) No. 1272/2008 and to directive 67/548/EEC and 1999/45/EC.

2.2 Label elements

Not labelled according to regulation (EC) No. 1272/2008 and to directive 67/548/EEC and 1999/45/EC.

2.3 Other hazards

Hot or molten material may cause burn injuries.

3. Section: Composition/information on ingredients

3.1 Ingredient

Substance name: Perfluorocarbon.
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4. Section: First aid measures

4.1 Description of first aid measures

General information

In case of persistent symptoms, consult doctor.

If inhaled

Remove affected person from danger zone and supply fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with plenty of water. Remove contaminated clothing immediately. In case of skin irritation, consult a physician.

In case of eye contact

Remove contact lenses. Flush eyes with plenty of water for several minutes, keeping eyelids open. Seek medical advice.

If swallowed

Rinse mouth with water. Drink plenty of water and consult a doctor (symptomatic treatment).

4.2 Most important symptoms and effects, both acute and delayed

No symptoms or hazards known up to now.

4.3 Indication of any immediate medical attention and special treatment needed

Notes for the physician

A symptomatic treatment is recommended.

5. Section: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

The material does not burn. Extinguishing agents and fire-fighting measures have to be coordinated in accordance with the surrounding fire.

5.2 Specific hazards arising from the chemical

In the case of fire, the formation of diverse flue gas components like flammable gases / vapours, toxic soot particles, carbon oxides and formaldehydes, or hydrofluoric acids and volatile fluorocarbons cannot be excluded.

Under pyrolytic conditions (elevated temperatures in the absence of oxygen), Teflon toxins, e.g. Perfluoroisobutene (CAS: 382-21-8, EC: 609-533-9), can develop.

5.3 Advice for fire-fighters

Do not inhale explosion and / or combustion gases. Depending on the dimension of the fire, wear self-contained breathing apparatus or a complete fire suit. Cool endangered receptacles with water. Collect contaminated extinguishing water separately and dispose it in accordance with local regulations.



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6. Section: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Keep away from sources of ignition (cigarettes, etc.). Ensure adequate ventilation. Avoid the formation of dust, the inhalation of vapours, mist or gas and contact with eyes and skin. Evacuate affected persons to safe areas. Note particular danger of slipping on leaked/spilled product.

Wear personal safety equipment.

6.2 Environmental precautions

Prevent material from reaching sewage system. Prevent soaking into surface water and groundwater and infiltration into the soil.

6.3 Methods and materials for containment and cleaning up

Cool down hot or molten material. Transfer solid material into suitable containers by mechanical means (broom, shovel).

Avoid the formation of dust and ensure sufficient ventilation.

Dispose of contaminated material as waste in accordance with section 13.

6.4 Reference to other sections

Disposal: see section 13.

Personal protective equipment: see section 8.

Safe handling: see section 7.

7. Section: Handling and storage

7.1 Precautions for safe handling

Handling

Keep in mind the risk of dust explosion and consequently provide appropriate exhaust ventilation at places where dust is formed. Avoid eye and skin contact as well as inhalation of dust, vapour or thermal decomposition products.

Do not exceed a process temperature of 200°C.

Advice on general occupational hygiene

Handle in accordance with good industrial hygiene and safety practice.

Precautions against fire and explosion

Keep away from ignition sources.

7.2 Conditions for safe storage, including any incompatibilities

Store container (stainless steel, glass, polyethylene) tightly closed in a dry, cool and well-ventilated place. Protect substance from direct light / heat / ignition sources.

Open and handle the container carefully.

7.3 Specific end uses

(Section 1.2)



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8. Section: Exposure controls/personal protection

8.1 Control parameters

No Information for exposure values (DNEL/DMEL/PNEC) are available.

8.2 Exposure controls

General protective and hygienic measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Keep product away from food, drink and feedstuff. Remove contaminated clothes and protective equipment immediately.

Avoid contact with eyes and skin and do not inhale gases / aerosols / vapours.

Appropriate engineering controls

Ensure good ventilation via the use of a local exhaust system or a good general extraction.

Personal protection equipment

Eye / Face protection:

Safety glasses with side-shields are recommended. Only use eye protection equipment that have been tested and approved under appropriate government standards such as NIOSH or EN.

Hand protection:

Handle with chemical-resistant protective gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The choice of suitable gloves depends not only on the material rather also on other quality characteristics and varies from manufacturer to manufacturer. The exact penetration time is to be obtained from the manufacture. This time must be observed.

The selected protective gloves have to satisfy the specifications of EU directive 89/686/EEC and the standard EN 374 and EN 407 derived from it.

Body protection:

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection:

In the case of the formation of dust use respiratory protection (filter B) or a dust mask.

Use respirators and components tested and approved under appropriate government standards such as NIOSH or CEN.

Additional information:

The suggested protection products were not tested. The selection of the protective equipment is based only on the present state of our knowledge and on information of this product.

Environmental exposure controls

Prevent material from reaching sewage system. Avoid penetration of the surface water and groundwater and infiltration into the soil.



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9. Section: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General data

Form:	Solid.
Colour:	White.
Odour:	Slight, distinctive.
Odour threshold:	No data available.
Melting point/freezing point:	No data available.
Initial boiling point and boiling range:	No data available.
Flash point:	Not applicable.
Evaporation rate:	Not applicable.
Flammability (solid, gas)	No data available.
Upper/lower flammability or explosive limits:	No data available.
Vapour pressure:	Not applicable.
Vapour density:	No data available.
Relative density:	No data available.
Water solubility:	No data available.
Partition coefficient: n-octanol/water	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.
Explosive properties:	No data available.
Oxidising properties:	No data available.

9.2 Other safety information

No data available.

10. Section: Stability and reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

Stable under recommended storage conditions.



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10.3 Possibility of hazardous reactions

Heat (greater than 200°C).

10.4 Conditions to avoid

No decomposition if used and stored according to specifications. Avoid heating or contact with heating or ignition sources as well as with flames. Choose the reaction temperature below the point of decomposition.

10.5 Incompatible materials

No data available.

10.6 Hazardous decomposition products

At elevated temperatures (greater than 200°C) the formation of hydrogen fluoride or Perfluoroisobutylene cannot be excluded.

11. Section: Toxicological information

11.1 Information on toxicological effects

Acute toxicity:

No data available.

Skin corrosion/irritation:

No data available.

Serious eye damage/irritation:

No data available.

Respiratory or skin sensitisation:

No data available.

Germ cell mutagenicity:

No data available.

Carcinogenicity:

No data available.

Reproductive toxicity:

No data available.

Specific target organ toxicity – single exposure:

No data available.

Specific target organ toxicity – repeated exposure:

No data available.

Aspiration hazard:

No data available.

Additional Information:

Note: This product is not totally verified. An irritation of the respiratory tract cannot be excluded.

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12. Section: Ecological information

Toxicity:

No data available.

Persistence and degradability:

No data available.

Bioaccumulative potential:

No data available.

Mobility in soil:

No data available.

Results of PBT and vPvB assessment:

No data available.

Other adverse effects:

Note: The product isn't water soluble. A mechanical separation is possible.

13. Section: Disposal considerations

13.1 Waste treatment methods

Residual quantities, solutions or contaminated packages may not be disposed of with regular trash or flushed into the sewer system. These materials have to be collected and disposed of by a suitably authorised company.

14. Section: Transport information

14.1 Land transport (ADR/RID/GGVS/GGVE)

ADR/RID/GGVS/E class(es): 9 Hazardous materials.

Hazard label(s):



UN-No.: 3257 Elevated temperature liquid, n.o.s., at or above 100 °C and below its flashpoint (including molten metals, molten salts, etc.)

Kemler number: 99

Packing group: III Least Danger.

Limited quantities: LQ0

Transport category: 3

Tunnel code: D

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Note: At temperatures below 100 °C the product is no hazardous material and consequently the classification to category 9 fails.

14.2 Sea transport (IMDG-Code/GGVSea)

IMDG/GGV sea-class(es): 9 Hazardous materials.

Label:



UN-No.: 3257 Elevated temperature liquid, n.o.s., at or above 100 °C and below its flashpoint (including molten metals, molten salts, etc.)

Packing group: III Least Danger.

Marine pollutant: no

Note: At temperatures below 100 °C the product is no hazardous material and consequently the classification to category 9 fails.

14.3 Air transport (ICAO-IATA/DGR)

ICAO/IATA-class(es): 9 Hazardous materials.

Hazard label(s):



UN/ID-No.: 3257 Elevated temperature liquid, n.o.s., at or above 100 °C and below its flashpoint (including molten metals, molten salts, etc.)

Packing group: III Least Danger.

Note: At temperatures below 100 °C the product is no hazardous material and consequently the classification to category 9 fails.

14.4 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:

According to the IBC – code the transport in bulk isn't allowed.

15. Section: Regulatory information

This safety data sheet complies with the requirements of regulation (EC) No. 1907/2006.

This substance is in compliance with the chemical notification requirements of TSCA (Source of registration: CA)

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

Handle in accordance with good industrial hygiene and safety practice.



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15.2. Chemical safety assessment

A chemical safety assessment was not carried out for this product.

16. Section: Other information

This product has to be handled carefully. Toxicological and ecological tests are still missing.

The classification of this product / mixture is based on the present state of our knowledge and on collected information. The information in this safety data sheet is believed to be correct but does not purport to be all inclusive and shall only serve as guideline for the use / storage / handling / transportation / disposal / release / processing of this product. The information relate only to the specific material designated and may not be valid for such material used in combination with any other material or in any process. In short, this safety data sheet is not applicable to any other products. Moreover, the information does not represent any guarantee of the properties of this mixture. HWK shall not be held liable for any damage resulting from handling or from contact with this product.

16.1 Abbreviations and glossary:

REACH:	Registration, Evaluation, Authorisation of Chemicals
EC:	European Community
EN:	European Norm
EEC:	European Economic Community
CLP:	Classification, Labelling, Packaging of Chemicals
NIOSH:	National Institute for Occupational Safety and Health
RID:	<i>Règlement international concernant le transport des marchandises dangereuses par chemin de fer</i> (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO:	International Civil Aviation Organization
ADR:	<i>Accord européen sur le transport des marchandises dangereuses par Route</i> (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG:	International Maritime Code for Dangerous Goods
IATA:	International Air Transport Association
GHS:	Globally Harmonised System of Classification and Labelling of Chemicals
EINECS:	European Inventory of Existing Commercial Chemical Substances
CAS:	Chemical Abstracts Service (division of the American Chemical Society)
LC ₅₀ :	Lethal concentration, 50 percent
LD ₅₀ :	Lethal dose, 50 percent
PBT:	Persistent, bioaccumulative, toxic
vPvB:	Very persistent, very bioaccumulative
GGVS	<i>Gefahrgutverordnung Strasse</i> (Ordinance on the Transport of Dangerous



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	Goods by Road)
GGVE:	<i>Gefahrgutverordnung Eisenbahn</i> (Ordinance on the Transport of Dangerous Goods by Train)
GGVSea:	<i>Gefahrgutverordnung See</i> (Ordinance on the Transport of Dangerous Goods by Sea)
DGR:	Dangerous Goods Regulations
TI:	Technical Instructions
MAC:	Maximum Allowable Concentration
TSCA:	Toxic Substances Control Act
IBC:	International Bulk Chemicals
MARPOL:	Marine Pollution
CEN:	Comité Européen de Normalisation (European Committee for Standardization)
DNEL	Derived No-Effect Level
DMEL	Derived Minimal Effect Levels
PNEC	Predicted No-Effect Concentration