

# SAFETY DATA SHEETS

According to the UN GHS revision 8

Version: 1.0

Creation Date: July 15, 2019

Revision Date: July 15, 2019

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## SECTION 1: Identification

### 1.1 GHS Product identifier

Product name hexaflumuron

### 1.2 Other means of identification

Other names

### 1.3 Recommended use of the chemical and restrictions on use

Identified uses Industrial and scientific research uses.

Uses advised against no data available

### 1.4 Supplier's details

Company Shanghai Tachizaki Biomedical Research Center

Address Building C, 888 Huanhu West Second Road, Lingang New Area, China (Shanghai) Pilot Free Trade Zone

Tel/Email +86-18014399201/sales@chemlab-tachizaki.com

### 1.5 Emergency phone number

Emergency phone number +86-180 14399 201

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## SECTION 2: Hazard identification

### 2.1 Classification of the substance or mixture

Acute toxicity - Category 4, Inhalation

Hazardous to the aquatic environment, short-term (Acute) - Category Acute 1

Hazardous to the aquatic environment, long-term (Chronic) - Category Chronic 1

### 2.2 GHS label elements, including precautionary statements

Pictogram(s)



Signal word Warning

Hazard statement(s) H332 Harmful if inhaled  
H410 Very toxic to aquatic life with long lasting effects

Precautionary statement(s)

Prevention P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

Response P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P317 Get medical help.

P391 Collect spillage.

Storage none

Disposal P501 Dispose of contents/container to an appropriate treatment and disposal facility in

accordance with applicable laws and regulations, and product characteristics at time of disposal.

## 2.3 Other hazards which do not result in classification

no data available

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## SECTION 3: Composition/information on ingredients

### 3.1 Substances

| Chemical name | Common names and synonyms | CAS number | EC number | Concentration |
|---------------|---------------------------|------------|-----------|---------------|
| Hexaflumuron  | Hexaflumuron              | 86479-06-3 | 617-865-0 | 100%          |

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## SECTION 4: First-aid measures

### 4.1 Description of necessary first-aid measures

#### If inhaled

Fresh air, rest.

#### Following skin contact

Rinse and then wash skin with water and soap.

#### Following eye contact

First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then refer for medical attention.

#### Following ingestion

Rinse mouth.

### 4.2 Most important symptoms/effects, acute and delayed

no data available

### 4.3 Indication of immediate medical attention and special treatment needed, if necessary

no data available

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## SECTION 5: Fire-fighting measures

### 5.1 Suitable extinguishing media

Use dry chemical, carbon dioxide or alcohol-resistant foam.

### 5.2 Specific hazards arising from the chemical

Liquid formulations containing organic solvents may be flammable. Gives off irritating or toxic fumes (or gases) in a fire.

### 5.3 Special protective actions for fire-fighters

In case of fire in the surroundings, use appropriate extinguishing media.

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## SECTION 6: Accidental release measures

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

Personal protection: particulate filter respirator adapted to the airborne concentration of the substance. Do NOT let this chemical enter the environment. Sweep spilled substance into covered containers. If appropriate, moisten first to prevent dusting. Carefully collect remainder. Then store and dispose of according to local regulations.

### 6.2 Environmental precautions

Prevent further spillage or leakage if it is safe to do so. Do not let the chemical enter drains. Discharge into the environment must be avoided.

### 6.3 Methods and materials for containment and cleaning up

Collect and arrange disposal. Keep the chemical in suitable and closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Adhered or collected material should be promptly disposed of, in

accordance with appropriate laws and regulations.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Handling in a well ventilated place. Wear suitable protective clothing. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Use non-sparking tools. Prevent fire caused by electrostatic discharge steam.

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

Separated from food and feedstuffs. Well closed. Store in an area without drain or sewer access.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure limit values

no data available

#### Biological limit values

no data available

### 8.2 Appropriate engineering controls

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Set up emergency exits and the risk-elimination area.

### 8.3 Individual protection measures, such as personal protective equipment (PPE)

#### Eye/face protection

Wear safety spectacles.

#### Skin protection

Protective gloves.

#### Respiratory protection

Avoid inhalation of dust.

#### Thermal hazards

no data available

## SECTION 9: Physical and chemical properties and safety characteristics

|   |   |
|---|---|
| <b>Physical state</b>   | Solid.  |
| <b>Colour</b>   | no data available                                       |
| <b>Odour</b>  | no data available                                       |
| <b>Melting point/freezing point</b>                             | 202 - 205 °C.   |
| <b>Boiling point or initial boiling point and boiling range</b> | no data available                                       |
| <b>Flammability</b>   | no data available                                       |
| <b>Lower and upper explosion limit/flammability limit</b>       | no data available                                       |
| <b>Flash point</b>  | no data available                                       |
| <b>Auto-ignition temperature</b>                                | > 220 °C.   |
| <b>Decomposition temperature</b>                                | no data available                                       |
| <b>pH</b>   | no data available                                       |
| <b>Kinematic viscosity</b>                                      | no data available                                       |
| <b>Solubility</b>   | In water: 0.027 mg/L. Temperature: 18 °C..Standard fat. |
| <b>Partition coefficient n-octanol/water</b>                    | log Pow = > 5.68.                                       |
| <b>Vapour pressure</b>  | 0 Pa. Temperature: 25 °C.                               |

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|  |                   |
|--|-------------------|
| <b>Density and/or relative density</b> | 1.68.             |
| <b>Relative vapour density</b>         | no data available |
| <b>Particle characteristics</b>        | no data available |

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

no data available

### 10.2 Chemical stability

no data available

### 10.3 Possibility of hazardous reactions

No data. Decomposes on burning. This produces toxic and corrosive fumes including nitrogen oxides, hydrogen chloride and hydrogen fluoride.

### 10.4 Conditions to avoid

no data available

### 10.5 Incompatible materials

no data available

### 10.6 Hazardous decomposition products

no data available

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## SECTION 11: Toxicological information

### Acute toxicity

- Oral: LD50 - > 5 000 mg/kg bw.
- Inhalation: LC50 - > 2.5 mg/L air.
- Dermal: LD50 - > 2 000 mg/kg bw.

### Skin corrosion/irritation

no data available

### Serious eye damage/irritation

no data available

### Respiratory or skin sensitization

no data available

### Germ cell mutagenicity

no data available

### Carcinogenicity

no data available

### Reproductive toxicity

no data available

### STOT-single exposure

no data available

### STOT-repeated exposure

The substance may have effects on the blood. This may result in the formation of methaemoglobin.

### Aspiration hazard

Evaporation at 20°C is negligible; a nuisance-causing concentration of airborne particles can, however, be reached quickly on spraying or when dispersed, especially if powdered.

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## SECTION 12: Ecological information

### 12.1 Toxicity

- Toxicity to fish: LC50 - Cyprinus carpio - > 100 mg/L - 96 h.
- Toxicity to daphnia and other aquatic invertebrates: EC50 - 0.142 mg/L - 48 h.
- Toxicity to algae: no data available
- Toxicity to microorganisms: no data available

### 12.2 Persistence and degradability

no data available

### 12.3 Bioaccumulative potential

no data available

### 12.4 Mobility in soil

no data available

### 12.5 Other adverse effects

no data available

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## SECTION 13: Disposal considerations

### 13.1 Disposal methods

#### Product

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

#### Contaminated packaging

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

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## SECTION 14: Transport information

### 14.1 UN Number

|   |  |  |
|---|--|--|
| ADR/RID: UN3077 (For reference only, please check.) | IMDG: UN3077 (For reference only, please check.) | IATA: UN3077 (For reference only, please check.) |
|---|--|--|

### 14.2 UN Proper Shipping Name

|   |  |  |
|---|--|--|
| ADR/RID: ENVIRONMENTALLY HAZARDOUS HAZARDOUS SUBSTANCE, SOLID, N.O.S. (For reference only, please check.) | IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (For reference only, please check.) | IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (For reference only, please check.) |
|---|--|--|

### 14.3 Transport hazard class(es)

|  |   |   |
|--|---|---|
| ADR/RID: 9 (For reference only, please check.) | IMDG: 9 (For reference only, please check.) | IATA: 9 (For reference only, please check.) |
|--|---|---|

### 14.4 Packing group, if applicable

|  |   |   |
|--|---|---|
| ADR/RID: III (For reference only, please check.) | IMDG: III (For reference only, please check.) | IATA: III (For reference only, please check.) |
|--|---|---|

### 14.5 Environmental hazards

|              |           |           |
|--------------|-----------|-----------|
| ADR/RID: Yes | IMDG: Yes | IATA: Yes |
|--------------|-----------|-----------|

### 14.6 Special precautions for user

no data available

## 14.7 Transport in bulk according to IMO instruments

no data available

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## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations specific for the product in question

| Chemical name   | Common names and synonyms | CAS number | EC number   |
|---|---------------------------|------------|-------------|
| Hexaflumuron  | Hexaflumuron              | 86479-06-3 | 617-865-0   |
| <b>European Inventory of Existing Commercial Chemical Substances (EINECS)</b>   |                           |            | Not Listed. |
| <b>EC Inventory</b>   |                           |            | Not Listed. |
| <b>United States Toxic Substances Control Act (TSCA) Inventory</b>              |                           |            | Not Listed. |
| <b>China Catalog of Hazardous chemicals 2015</b>                                |                           |            | Not Listed. |
| <b>New Zealand Inventory of Chemicals (NZIoC)</b>                               |                           |            | Not Listed. |
| <b>Philippines Inventory of Chemicals and Chemical Substances (PICCS)</b>       |                           |            | Not Listed. |
| <b>Vietnam National Chemical Inventory</b>                                      |                           |            | Listed.     |
| <b>Chinese Chemical Inventory of Existing Chemical Substances (China IECSC)</b> |                           |            | Not Listed. |
| <b>Korea Existing Chemicals List (KECL)</b>                                     |                           |            | Listed.     |

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## SECTION 16: Other information

### Information on revision

|                      |               |
|----------------------|---------------|
| <b>Creation Date</b> | July 15, 2019 |
| <b>Revision Date</b> | July 15, 2019 |

### Abbreviations and acronyms

- CAS: Chemical Abstracts Service
- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- RID: Regulation concerning the International Carriage of Dangerous Goods by Rail
- IMDG: International Maritime Dangerous Goods
- IATA: International Air Transportation Association
- TWA: Time Weighted Average
- STEL: Short term exposure limit
- LC50: Lethal Concentration 50%
- LD50: Lethal Dose 50%
- EC50: Effective Concentration 50%

### References

- IPCS - The International Chemical Safety Cards (ICSC), website: <http://www.ilo.org/dyn/icsc/showcard.home>
- HSDB - Hazardous Substances Data Bank, website: <https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm>
- IARC - International Agency for Research on Cancer, website: <http://www.iarc.fr/>
- eChemPortal - The Global Portal to Information on Chemical Substances by OECD, website: [http://www.echemportal.org/echemportal/index?pageID=0&request\\_locale=en](http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en)
- CAMEO Chemicals, website: <http://cameochemicals.noaa.gov/search/simple>
- ChemIDplus, website: <http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp>
- ERG - Emergency Response Guidebook by U.S. Department of Transportation, website: <http://www.phmsa.dot.gov/hazmat/library/erg>
- Germany GESTIS-database on hazard substance, website: <http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp>
- ECHA - European Chemicals Agency, website: <https://echa.europa.eu/>

### Other Information

If the substance is formulated with solvent(s) also consult the card(s) (ICSC) of the solvent(s). Carrier solvents used in commercial formulations may change physical and toxicological properties.

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*Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with*

*regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. We as supplier shall not be held liable for any damage resulting from handling or from contact with the above product.*