

SAFETY DATA SHEET

In accordance with ISO 11014: 2009

Section 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Product code 4-DF-002
4-DP-002
Product name House Dust Mite Extract, Whole Body (Df)
House Dust Mite Extract, Whole Body (Dp)

Manufacture/supplier

Manufacture/supplier Institute of Tokyo Environmental Allergy, ITEA Inc.
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Recommended use and restriction on use

Recommended use Research reagent
Restrictions on use This product should not be used for applications other than those recommended.

Section 2: HAZARDS IDENTIFICATION

Important hazards**GHS classification**

Physical Hazards Not classified
Health Hazards Not classified
Environmental Hazards Not classified

Label Elements

Pictogram Not classified
Signal word Not classified
Hazard Statements Not classified
Precautionary Statements Not classified

Other hazards

No information

Important symptoms and an outline of an anticipated emergency

No information

Section 3: COMPOSITION/ INFORMATION ON INGREDIENTS

Substance/Mixture

Mixture

Compositions

| Chemical name/ Generic name | CAS number | Concentration (wt %) |
|---------------------------------------|------------|----------------------|
| Raw material (*1)-derived ingredients | - | ≥ 90.86 |
| Sodium chloride | 7647-14-5 | ≤ 6.28 |
| Sodium phosphate dibasic heptahydrate | 7782-85-6 | ≤ 2.10 |
| ProClin™ 950 | - | ≤ 0.41 |
| Potassium dihydrogenphosphate | 7778-77-0 | ≤ 0.19 |
| Potassium chloride | 7447-40-7 | ≤ 0.16 |

*1 The raw material of each product is the following:

4-DF-002: House dust mites, *Dermatophagoides farinae* (CAS number: -)

4-DP-002: House dust mites, *Dermatophagoides pteronyssinus* (CAS number: -)

Special remarks

ProClin™ 950 includes the following:

2-Methyl-4-isothiazolin-3-one (CAS number: 2682-20-4) < 10% (< 0.04% in this product)

Section 4: FIRST-AID MEASURES

First aid procedures

IF INHALED

Remove victim to fresh air and keep at rest in a position comfortable for breathing.

If you feel unwell, get medical advice/attention immediately and at rest.

IF ON SKIN

Rinse with plenty of water.

If abnormality, immediately get medical advice/attention.

IF IN EYES

Immediately rinse cautiously with water for 15 - 20 minutes.

Remove contact lenses, if present and easy to do.

Continue rinsing.

Immediately get medical advice/attention.

IF SWALLOWED

Rinse mouth. Immediately get medical advice/attention.

Anticipated acute effects, anticipated delayed effects and most important symptoms/effects

May cause skin, eyes and respiratory system irritation or cause allergic reaction if contact with or inhaled this product.

Protection of first-aiders

Wear appropriate eyes and skin protective equipment.

Note to an attending physician

No information

Section 5: FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media

In case of fire, use water spray, dry extinguishant, fire foam or carbon dioxide.

Unsuitable extinguishing media

No restrictions on extinguishing media for this product.

Specific hazards arising from the chemical

Take action from windward.

Keep out except responsible personnel.

Move container to a safe area if it can be done without risk.

Protective equipment and precautions for firefighters

Fire fighters should wear appropriate protective equipment and fireproof clothing.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions

Wear suitable protective equipment described in section "Section 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION".

Environmental precautions

Prevent to flowing into drains, sewers, basements or closed areas.

Methods and materials for containment and cleaning up

Sweep up scattered materials or vacuum them using a vacuum cleaner so as not to cause dust then collect them into an empty container.

Secondary disaster prevention measures

No information

Section 7: HANDLING AND STORAGE

Handling

| | |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Technical measures | Install appropriate equipment and wear suitable protective apparatus described in section "Section 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION". |
| Precautions such as local /total ventilation | Handle the product in a well-ventilated area. In case of mist/vapours generation, use local ventilation. |
| Precautions for safe handling | Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid the generation of dust. |
| Prevention of contact | Avoid direct sunlight or high temperature and high humidity. |

Storage

| | |
|-------------------------------------|---------------------------------------------------|
| Technical measures | Store in a biomedical refrigerator at 2 - 8°C. |
| Incompatible materials and mixtures | No information |
| Conditions for safe storage | Avoid sunlight. Store in a cool place at 2 - 8°C. |
| Packing material | Glass |

Section 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Permissible concentration

Occupational Exposure Limits

| | | |
|-----------------------|----------------------|------------------------|
| ACGIH TLV-TWA (2018) | 3 mg/m ³ | (respirable particles) |
| | 10 mg/m ³ | (inhalable particles) |
| ACGIH TLV-STEL (2018) | Not applicable | |

* This item is not an acceptable concentration for sensitization.

Engineering controls

In a work place where dusts generate, ensure to use sealed instrument or local ventilation.

Personal protective equipment

| | |
|--------------------------|--------------------------------------|
| Respiratory protection | Wear an appropriate protective mask. |
| Hand protection | Wear protective gloves. |
| Eye protection | Wear safety glasses . |
| Skin and body protection | Wear a lab coat. |

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---------------------------------------------------------------|--------------------------------------------------------------|
| Appearance (physical state, form and colour) | Light brown or white powder |
| Odour | No information |
| Odour threshold | No information |
| pH | 7.2 - 7.6 (after dissolving with distilled water) |
| Melting point/ freezing point | No information |
| Boiling point, initial boiling point and boiling range | No information |
| Flashpoint | No information |
| Evaporation rate | No information |
| Flammability | No information |
| Upper/lower explosive limits | No information |
| Vapour pressure | No information |
| Vapour density | No information |
| Specific gravity | No information |
| Solubility | This product dissolves in water, but it may cause turbidity. |
| n -octanol/water partition coefficient | No information |
| Auto-ignition temperature | No information |
| Decomposition temperature | No information |

| | |
|--------------------------|----------------|
| Viscosity | No information |
| Other information | No information |

Section 10: STABILITY AND REACTIVITY

| | |
|-----------------------------------------|-------------------------------------------------------|
| Chemical stability | Stable under normal handling condition. |
| Hazardous reactions | No hazardous reaction expected under normal handling. |
| Conditions to avoid | Direct sunlight, high temperature and high humidity |
| Incompatible materials | No information |
| Hazardous decomposition products | No information |

Section 11: TOXICOLOGICAL INFORMATION

| | |
|--------------------------------------------------|----------------|
| Toxicological information for product | No information |
| Toxicological information for ingredients | No information |

Section 12: ECOLOGICAL INFORMATION

| | |
|-----------------------------------------------|----------------|
| Ecological information for product | |
| Ecotoxicity | No information |
| Persistence and degradability | No information |
| Bioaccumulative potential | No information |
| Mobility in soil | No information |
| Hazardous to the ozone layer | No information |
| Ecological information for ingredients | No information |

Section 13: DISPOSAL CONSIDERATIONS

Remaining product

Dispose of waste in accordance with applicable local, regional and international regulations and standards.

Contaminated containers and packaging

When dispose of empty containers, contents should be removed completely and be recycled or dispose of in compliance with related laws and local regulations.

Section 14: TRANSPORT INFORMATION

International regulation

| | |
|----------------------------|----------------|
| UN number | Not applicable |
| UN proper shipping name | Not applicable |
| Transport hazard class(es) | Not applicable |
| Subsidiary risk | Not applicable |
| Packing group | Not applicable |
| Marine pollutant | Not applicable |
| IBC Code | Not applicable |

When transporting, confirm no damage to containers. Avoid handling violently or leaking wet. Load to prevent fall or falling down containers and take preventive measures of collapse.

Section 15: REGULATORY INFORMATION

US Federal regulation

| | | |
|-----------------|------------|----------------------------------------------------------------------------------------------------------|
| TSCA inventory: | Registered | Sodium chloride Potassium dihydrogenphosphate Potassium chloride 3(2H)-Isothiazolone, 2-methyl- |
|-----------------|------------|----------------------------------------------------------------------------------------------------------|

EU regulation

The product and its ingredients are not regulated by specific provisions related to protection of human health or the environment at EU level, e.g. not considered as SVHCs or POPs.

(EC) 1272/2008 (Annex VI, Table 3): Not Listed

Section 16: OTHER INFORMATION

Reference

Information of Institute of Tokyo Environmental Allergy, ITEA Inc.

NITE GHS classification results (<http://www.safe.nite.go.jp/ghs/list.html>). (2018)

ACGIH, American Conference of Governmental Industrial Hygienists (2018) TLVs and BEIs.

[Disclaimer]

This SDS has been prepared on the basis of laws, regulations and information available at this time. It is user's responsibility to modify or update any contents in this SDS regarding information on hazardous properties and/or instruction for safe handling of the product when they become available. Precautionary measures in this SDS are only applicable for normal handling conditions and it is necessary to take appropriate additional measures to ensure safe handling which depend on your specific use conditions or situations.