

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



A Honeywell Company

UOP T-POWDER

89066

Version 1.2

Revision Date 19.12.2014

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name : UOP T-POWDER

Type of product : Substance

Remarks : Document according to Art. 32 of Regulation (EC) 1907/2006.

Chemical Name : Zeolite, cuboidal, crystalline, synthetic, non-fibrous

Registration number : 01-2119429034-49

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

Use of the Substance/Mixture : Adsorbent

Uses advised against : none

1.3. Details of the supplier of the safety data sheet

Company	: UOP N.V. Noorderlaan 147 2030 Antwerp Belgium	UOP CH Z.A. La Pièce 16 1180 Rolle Switzerland
Telephone	: +32-3-5409911	+41-21-6953039
Telefax	: +32-3-5417806	+41-21-6953189
For further information, please contact:	: PMTEU Product Stewardship: SafetyDataSheet@Honeywell.com	

1.4. Emergency telephone number

Emergency telephone number : +1-703-527-3887 (ChemTrec)
+1-303-389-1414 (Medical)

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

REGULATION (EC) No 1272/2008

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

DIRECTIVES 67/548/EEC or 1999/45/EC

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Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.

2.2. Label elements

REGULATION (EC) No 1272/2008

Precautionary statements : P281 Use personal protective equipment as required.

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

DIRECTIVES 67/548/EEC or 1999/45/EC

Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.

2.3. Other hazards

Potential health effects

- Skin : Prolonged skin contact may cause skin irritation.
- Eyes : Dust and/or product may cause eye discomfort and/or irritation seen as tearing and reddening.
- Ingestion : Burns to moist body tissue can result if contact is prolonged.
- Inhalation : Exposure to dust particles generated from this material may cause irritation of the respiratory tract.
- Chronic Exposure : Prolonged or repeated inhalation may cause lung damage.
- Further information : When first wetted, the product can heat up to the boiling point of water. Flood with water to cool material.
Repeated or prolonged exposure may irritate eyes, skin and respiratory system.

Potential environmental effects

If used as directed, no hazardous effects to the environment are to be expected.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Type of product : Substance

Chemical characterization

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Occupational Exposure Limit(s), if available, are listed in Section 8.

4. FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation : Remove to fresh air. If symptoms persist, call a physician.
Skin contact : Wash off with soap and plenty of water. If skin irritation persists, call a physician.
Eye contact : Rinse immediately with plenty of water for at least 15 minutes. If eye irritation persists, consult a physician.
Ingestion : Drink at least 2 glasses of water. Obtain medical attention. Never give anything by mouth to an unconscious person.

4.2. Most important symptoms and effects, both acute and delayed

no data available

4.3. Indication of any immediate medical attention and special treatment needed

This product is a desiccant and generates heat as it adsorbs water., Treat symptomatically., The used product can contain material of a hazardous nature. Identify that material and treat symptomatically.

See Section 11 for more detailed information on health effects and symptoms.

5. FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media : Not combustible.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2. Special hazards arising from the substance or mixture

The product itself does not burn.
The used product can retain material of a hazardous nature. Identify that material and inform the fire fighters.

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5.3. Advice for firefighters

In the case of respirable dust and/or fumes, use self-contained breathing apparatus and dust impervious protective suit.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear appropriate personal protective equipment.

6.2. Environmental precautions

No special environmental precautions required.

6.3. Methods and materials for containment and cleaning up

Sweep, shovel or vacuum spilled product into appropriate containers (do not use a vacuum if material has contacted a hydrocarbon material). Pick up and arrange disposal without creating dust. Never return spills in original containers for re-use. Spilled product should be disposed of in accordance with all applicable government regulations.

6.4. Reference to other sections

For personal protection see section 8.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling : Handle and open container with care. Avoid dust formation. Avoid contact with skin and eyes. Provide an electrical ground connection during loading and transfer operations to avoid static discharge in an explosive atmosphere and to prevent persons handling the product from receiving static shocks.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store in original container. Keep in a dry place.

7.3. Specific end use(s)

Specific use information : A copy of UOP's booklet, "Precautions & Safe Practices for Handling Zeolite Molecular Sieve Adsorbents in Process Units", can be obtained from your UOP representative at no cost.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits:

Components	Basis	Value type	Control parameters	Exceeding Factor	Form of exposure	Remarks
Zeolite, cuboidal, crystalline, synthetic, non-fibrous	EH40 WEL	TWA	10 mg/m ³		Inhalable dust.	
Zeolite, cuboidal, crystalline, synthetic, non-fibrous	EH40 WEL	TWA	4 mg/m ³		Respirable dust.	

TWA - time weighted average

DNEL/ PNEC-Values

No DNEL-data available.

No PNEC data available.

8.2. Exposure controls

Occupational exposure controls

Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls

Handle in accordance with local environmental regulations and good industrial practices.

Engineering measures

Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.
Disposable filtering half mask Class FFP1 (EN149).
Half mask with a particle filter P1 (EN143).

Hand protection : Protective gloves

Eye protection : Safety glasses

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Safety goggles

Skin and body protection : Lightweight protective clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Form	: powder
Colour	: white to off-white
Odour	: none
Melting point/range	: > 400 °C
Boiling point/boiling range	: Not applicable
Flash point	: Not applicable
Flammability (solid, gas)	: Not applicable
Ignition temperature	: Not applicable
Lower explosion limit	: Not applicable
Upper explosion limit	: Not applicable
Vapour pressure	: Not applicable
Density	: > 2,0 g/cm ³
Bulk density	: For further information, refer to the product technical data sheet.
Viscosity, kinematic	: Not applicable
pH	: Not applicable
Water solubility	: insoluble
Solubility in other solvents	: no data available
Partition coefficient: n-octanol/water	: no data available

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Relative vapour density : Not applicable

10. STABILITY AND REACTIVITY

10.1. Reactivity

no data available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

no data available

10.4. Conditions to avoid

no data available

10.5. Incompatible materials

Sudden contact with high concentrations of chemicals having high heats of adsorption such as olefins, HCl, etc.

When first wetted, the product can heat up to the boiling point of water. Flood with water to cool material.

10.6. Hazardous decomposition products

No decomposition if used as directed.

Hydrocarbons and other materials that contact the product during normal use can be retained on the product.

It is reasonable to expect that decomposition products will come from these retained materials of use.

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute oral toxicity : LD50
Species: Rat
Value: > 5.110 mg/kg

Acute dermal toxicity : LD50
Species: Rabbit
Value: > 2.000 mg/kg

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Acute inhalation toxicity	: LC0 Species: Rat Value: > 3,35 mg/l Exposure time: 4 h
Skin irritation	: Species: Rabbit Classification: Not classified as a skin irritant in animal testing.
Eye irritation	: Species: Rabbit Classification: Not classified as an eye irritant in animal testing.
Further information	: Additional data is available to professional users on request.

12. ECOLOGICAL INFORMATION

12.1. Toxicity

Toxicity to fish	: LC50 Species: Pimephales promelas (fathead minnow) Value: > 680 mg/l Exposure time: 96 h
Toxicity to aquatic plants	: EC50 Species: scenedesmus subspicatus Value: > 328 mg/l Exposure time: 96 h
Toxicity to aquatic invertebrates	: EC50 Species: Daphnia magna (Water flea) Value: 2.808 mg/l Exposure time: 24 h

12.2. Persistence and degradability

Biodegradability	: no data available
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12.3. Bioaccumulative potential

no data available

12.4. Mobility in soil

no data available

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12.5. Results of PBT and vPvB assessment

no data available

12.6. Other adverse effects

Additional ecological information : Additional data is available to professional users on request.

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Product : Can be landfilled or incinerated, when in compliance with local regulations.
Store containers and offer for recycling of material when in accordance with the local regulations.
Contact waste disposal services.
Materials of a hazardous nature that contact the product during normal use may be retained on this product. The user of the product must identify the hazards associated with the retained material in order to assess the waste disposal options.

Further information : Provisions relating to waste:
EC Directive 2006/12/EC; 2008/98/EEC
Regulation No. 1013/2006

For personal protection see section 8.

14. TRANSPORT INFORMATION

ADR/RID

Not dangerous goods

IATA

Not dangerous goods

IMDG

Not dangerous goods

15. REGULATORY INFORMATION

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

Other inventory information

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US. Toxic Substances Control Act	:	On the inventory, or in compliance with the inventory
Australia. Industrial Chemical (Notification and Assessment) Act	:	On the inventory, or in compliance with the inventory
Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL)	:	All components of this product are on the Canadian DSL.
Japan. Kashin-Hou Law List	:	On the inventory, or in compliance with the inventory
Korea. Toxic Chemical Control Law (TCCL) List	:	On the inventory, or in compliance with the inventory
Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act	:	On the inventory, or in compliance with the inventory
China. Inventory of Existing Chemical Substances	:	On the inventory, or in compliance with the inventory
New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand	:	On the inventory, or in compliance with the inventory

15.2 Chemical safety assessment

Chemical safety assessment	:	A Chemical Safety Assessment has been carried out.
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16. OTHER INFORMATION

Further information

All directives and regulations refer to amended versions.

Vertical lines in the left hand margin indicate an amendment from the previous version.

Abbreviations:

EC European Community

CAS Chemical Abstracts Service

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user.

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This information should not constitute a guarantee for any specific product properties.
