

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Honeywell

OS® 2200 Crosslinking Agent

KOC65568

Version 1.4

Revision Date 11.01.2011

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

Product information

Product name : OS® 2200 Crosslinking Agent

Product code : KOC65568

Type of product : Substance

Chemical Name : 4-Methyl-2-pentanone, O,O',O''-(ethenylsilyldiylne) trioxime

EC-No. : 421-860-7

Use of the Substance/Mixture : Crosslinker

Company/Undertaking Identification

Company : Honeywell International, Inc. Honeywell International, Inc.
101 Columbia Road 101 Columbia Road
07962-1057 Morristown Morristown, NJ 07962-1057
USA USA

Telephone :
Telefax :
Emergency telephone :
number

For further information, : SMEU Product Stewardship
please contact: SafetyDataSheet@Honeywell.com

2. HAZARDS IDENTIFICATION

Classification

REGULATION (EC) No 1272/2008

Not a hazardous substance/ mixture according to GHS.

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.

Label elements

REGULATION (EC) No 1272/2008

Precautionary statements : P281 Use personal protective equipment as required.

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

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

Additional label elements:

Hazardous components which must be listed on the label :

Potential health effects

Skin : May irritate skin.
Eyes : May irritate eyes.
Ingestion : no data available
Inhalation : May cause respiratory tract irritation.
Chronic Exposure : no data available
General advice : Do not breathe vapours or spray mist.

Potential environmental effects

Should not be released into the environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization

Chemical Name : 4-Methyl-2-pentanone, O,O',O''-(ethenylsilyldiyne) trioxime

Occupational Exposure Limit(s), if available, are listed in Section 8.
For the full text of the R-phrases/ H-statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

General advice : Take off all contaminated clothing immediately.
Inhalation : Remove to fresh air.
Keep patient warm and at rest.
Skin contact : After contact with skin, wash immediately with plenty of water.
Eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Ingestion : When swallowed, allow water to be drunk.
Call a physician immediately.

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

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5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Foam
Carbon dioxide (CO₂)
Dry powder
- Extinguishing media which shall not be used for safety reasons : Water
- Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Ensure adequate ventilation.
- Environmental precautions : Do not flush into surface water or sanitary sewer system.
- Methods for cleaning up : Soak up with inert absorbent material.
Pick for disposal in tightly closed containers

For personal protection see section 8.

7. HANDLING AND STORAGE

Handling

- Advice on safe handling : Exhaust ventilation at the object is necessary.
- Advice on protection against fire and explosion : No special protective measures against fire required.
Keep away from sources of ignition - No smoking.
- Hygiene measures : Take off all contaminated clothing immediately.
Wash hands before breaks and at the end of workday.
When using do not eat or drink.

Storage

- Further information on storage conditions : Keep containers tightly closed in a dry, cool and well-ventilated place.
- Advice on common storage : Keep away from sources of ignition, water and alkalies
Do not store with acids or alkalies.
Do not store together with:
Oxidizing agents

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Occupational exposure controls

Do not inhale aerosol.

The Personal Protective Equipment must be in accordance with EN standards:respirator EN 136, 140, 149; safety glasses EN 166; protective suit: EN 340, 463, 468, 943-1, 943-2; gloves EN 374, safety shoes EN-ISO 20345.

Environmental exposure controls

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

Personal protective equipment

- | | | |
|--------------------------|---|--|
| Respiratory protection | : | Remarks: Breathing apparatus needed only when aerosol or mist is formed. |
| Hand protection | : | Glove material: Impervious gloves |
| Eye protection | : | Safety glasses with side-shields |
| Skin and body protection | : | Protective suit |

9. PHYSICAL AND CHEMICAL PROPERTIES

- | | | |
|-----------------------------|---|--|
| Form | : | liquid |
| Odour | : | weak |
| Melting point/range | : | < -25 °C |
| Boiling point/boiling range | : | 319 - 331 °C
Method: 92/69/EEC, A.2 |
| Flash point | : | 100 °C
Method: 92/69/EEC, A.9 |
| Ignition temperature | : | 281 °C |
| Lower explosion limit | : | no data available |
| Upper explosion limit | : | no data available |
| Vapour pressure | : | 720 µPA
at 25 °C |
| Density | : | 0,941 g/cm3 |

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at 20 °C
Method: 92/69/EEC, A.3

Water solubility : hydrolyses

Partition coefficient: n-
octanol/water : log Pow 12,91

10. STABILITY AND REACTIVITY

Materials to avoid : Reactions with water and acids.
Reactions with strong acids and alkalies.
Oxidizing agents

Hazardous decomposition products : nitrogen oxides (NO_x)
Carbon monoxide
Carbon dioxide (CO₂)

Stability and reactivity : >207 °C
Decomposition temperature

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50
Species: rat
Value: > 2.000 mg/kg
Method: OECD

Acute dermal toxicity : LD50
Species: rat
Value: > 2.000 mg/kg
Method: OECD

Acute inhalation toxicity : no data available

Skin irritation : Species: rabbit
Classification: slightly irritant
Method: OECD

Eye irritation : Species: rabbit eye
Classification: slightly irritant

Sensitisation : Species: guinea pig
Classification: non-sensitizing

Repeated dose toxicity : Species: rat
Route of exposure: Oral
Dose Levels: 15 mg/kg/d
No observed adverse effect level

Further information : No experimental information on genotoxicity in vitro available.

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12. ECOLOGICAL INFORMATION

Persistence and degradability

Biodegradability : Biodegradation: 4 %
Exposure time: 28 d
Result: Not readily biodegradable.
Method: Closed Bottle test

Ecotoxicity effects

Toxicity to fish : LC50
Species: Oncorhynchus mykiss (rainbow trout)
Value: > 100 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to aquatic plants : IC50
Value: > 100 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

Acute toxicity to aquatic invertebrates : NOEC
Species: Daphnia magna (Water flea)
Value: > 93 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

Acute toxicity to aquatic invertebrates : EC50
Species: Daphnia magna (Water flea)
Value: > 92 mg/l
Exposure time: 21 d
Method: OECD Guideline No. 211

13. DISPOSAL CONSIDERATIONS

Product : Dispose according to legal requirements.

Packaging : Legal requirements are to be considered in regard of reuse or disposal of used packaging materials

Further information : Provisions relating to waste:
EC Directive 2006/12/EC; 91/689/EEC
Regulation No. 1013/2006

For personal protection see section 8.

14. TRANSPORT INFORMATION

ADR/RID

Not dangerous goods

IATA

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Not dangerous goods

IMDG

Not dangerous goods

15. REGULATORY INFORMATION

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

Other inventory information

- | | |
|---|--|
| US. Toxic Substances Control Act | : On TSCA Inventory |
| Australia. Industrial Chemical (Notification and Assessment) Act | : Not in compliance with the inventory |
| Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL). (Can. Gaz. Part II, Vol. 144) | : All components of this product are on the Canadian DSL list. |
| Japan. Kashin-Hou Law List | : Not in compliance with the inventory |
| Korea. Existing Chemicals Inventory (KECI) | : Not in compliance with the inventory |
| Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act | : Not in compliance with the inventory |
| China. Inventory of Existing Chemical Substances | : Not in compliance with the inventory |
| New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand | : Not in compliance with the inventory |

16. OTHER INFORMATION

Further information

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

Abbreviations:

- EC European Community
CAS Chemical Abstracts Service
WEL Workplace Exposure Limit
MAK Maximale Arbeitsplatz-Konzentration
AGW Arbeitsplatzgrenzwert
STEL Short Term Exposure Limit

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

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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.

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