

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Honeywell

OS® 9000/440 Phenyl Oximino Silane

KOC65561

Version 2.

Revision Date 18.05.2009

Print Date 05.02.2010

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

Product information

Trade name : OS® 9000/440 Phenyl Oximino Silane

Product code : KOC65561

Company/Undertaking Identification

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

Telephone :
Telefax :
Emergency telephone :
For further information,
please contact: : SafetyDataSheet@Honeywell.com

2. HAZARDS IDENTIFICATION

Risk advice to man and the environment

Xn, Harmful

R43 May cause sensitization by skin contact.

R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Harmful
Sensitising
Dangerous for the environment

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization

Chemical Name : OS® 9000/440 Phenyl Oximino Silane
CAS-No. : 34036-80-1
Index-No. : 014-037-00-5

Hazardous components

Chemical Name	CAS-No.	EC-No.	Index-No.	Classification	Concentration [%]
2-butanone-O,O',O''-(phenylsilylidyne)trioxime	34036-80-1		014-037-00-5	Xn; R48/22 R43 R52-R53	>= 90
Butanone oxime	96-29-7	202-496-6	616-014-00-0	R40 Xn; R21 Xi; R41 R43	< 1

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				Carcinogenic Category 3	
n-Hexane	110-54-3	203-777-6	601-037-00-0	F; R11 R62 Xn; R65-R48/20 Xi; R38 R67 N; R51-R53 Toxic to Reproduction Category 3	<= 0,4

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

4. FIRST AID MEASURES

- Inhalation : Remove to fresh air.
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.
Do NOT induce vomiting.
Call a physician immediately.

Notes to physician

- Treatment : Treat symptomatically.

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

5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Water spray
Foam
Carbon dioxide (CO₂)
Dry powder
Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.
Further information : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Ensure adequate ventilation.
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.

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Advice on protection against fire and explosion : No special precautions required.

Storage

Further information on storage conditions : Keep containers tightly closed in a dry, cool and well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure controls

Components	Basis	Value type	Control parameters	Exceeding Factor	Form of exposure	Remarks
n-Hexane	EH40 WEL	time weighted average	72 mg/m ³ 20 ppm			
n-Hexane	EU ELV	time weighted average	72 mg/m ³ 20 ppm			

Personal protective equipment

Respiratory protection : In the case of dust or aerosol formation use respirator with an approved filter.

Hand protection : Neoprene gloves

Eye protection : Goggles

Skin and body protection : Protective suit

Protective measures : Do not breathe vapours/dust.
Take off all contaminated clothing immediately.
Avoid contact with eyes.
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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form : liquid

Colour : colourless

Odour : slight, product specific

Safety data

Flash point : 106 °C
Method: 92/69/EEC, A.9

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Auto ignition temperature	:	320 °C Method: EC A.16
Auto ignition temperature	:	608 °F
Vapour pressure	:	0,003 Pa at 25 °C
Density	:	0,995 g/cm3 at 25 °C
Density	:	1,04 g/cm3 at 20 °C
Water solubility	:	Remarks: Reacts violently with water.
Partition coefficient: n-octanol/water	:	log Pow > 9,9

10. STABILITY AND REACTIVITY

Thermal decomposition	:	Note: No decomposition if used as directed.
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11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	:	LD50 Species: rat Dose: > 2.000 mg/kg Method: OECD
Acute dermal toxicity	:	LD50 Species: rat Dose: > 2.000 mg/kg Method: OECD Test Guideline 402
Skin irritation	:	Species: rabbit Classification: slightly irritant Exposure time: 4 h Method: EEC 84/449, B.4
Eye irritation	:	Species: rabbit Classification: slightly irritant Exposure time: 72 h Method: EEC 92/69, B.5
Sensitisation	:	Species: guinea pig Classification: Sensitising Method: EEC 92/69, B.6
Further information	:	Remarks: No experimental information on genotoxicity in vitro available. No experimental indications on genotoxicity in vivo found.

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12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)

Biodegradability : CO2 formation in % of theoretical value
Biodegradation: 60 %
Exposure time: 28 d
Result: Inherently biodegradable.
Method: Modified Sturm Test

Ecotoxicity effects

Toxicity to fish : LC50
Species: *Oncorhynchus mykiss* (rainbow trout)
Value: > 89,8 mg/l
Exposure time: 96 h
Method: 92/69/EEC, C.1

Toxicity to aquatic plants : EC50
Species: *Pseudokirchneriella subcapitata*
Value: 13,8 mg/l
Exposure time: 72 h
Method: 92/69/EEC, C.3

Toxicity to Microorganisms : EC50
Species: activated sludge
Value: > 1.000 mg/l
Exposure time: 3 h
Method: OECD 209

Acute toxicity to aquatic invertebrates : EC50
Species: *Daphnia*
Value: > 101 mg/l
Exposure time: 48 h
Method: EEC 92/69/V, C2

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

14. TRANSPORT INFORMATION

ADR

Not dangerous goods

IATA

Not dangerous goods

IMDG

Not dangerous goods

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RID

Not dangerous goods

15. REGULATORY INFORMATION

Labelling according to EC Directives 67/548/EEC

Symbol(s)	: Xn	Harmful
R-phrase(s)	: R43 R48/22 R52/53	May cause sensitization by skin contact. Harmful: danger of serious damage to health by prolonged exposure if swallowed. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrase(s)	: S36/37 S61	Wear suitable protective clothing and gloves. Avoid release to the environment. Refer to special instructions/ Safety data sheets.

Hazardous components which must be listed on the label:

- 2-butanone-O,O',O''- (phenylsilylidyne)trioxime 34036-80-1

Further information : The product is classified and labelled in accordance with Directive 1999/45/EC.

National legislation

16. OTHER INFORMATION

Text of R-phrases referred to under heading 3

2-butanone-O,O',O''- (phenylsilylidyne)trioxime	: R48/22 R43 R52 R53	Harmful: danger of serious damage to health by prolonged exposure if swallowed. May cause sensitization by skin contact. Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.
Butanone oxime	: R40 R21 R41 R43	Limited evidence of a carcinogenic effect. Harmful in contact with skin. Risk of serious damage to eyes. May cause sensitization by skin contact.
n-Hexane	: R11 R62 R65 R48/20 R38 R67	Highly flammable. Possible risk of impaired fertility. Harmful: may cause lung damage if swallowed. Harmful: danger of serious damage to health by prolonged exposure through inhalation. Irritating to skin. Vapours may cause drowsiness and

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	dizziness.
R51	Toxic to aquatic organisms.
R53	May cause long-term adverse effects in the aquatic environment.

Further information

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.

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