

**HYDRANAL™ NEXTGEN Composite 5 OM**

34805-6X1L-OM

Version 1.7

Revision Date 10.07.2020

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

**1.1. Product identifier**

Product name : HYDRANAL™ NEXTGEN Composite 5 OM  
SDS-number : 000000020610  
Type of product : Mixture  
Remarks : SDS according to Art. 31 of Regulation (EC) 1907/2006.

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

Use of the Substance/Mixture : Laboratory chemicals  
Uses advised against : none

**1.3. Details of the supplier of the safety data sheet**

Company : Honeywell Specialty Chemicals Seelze GmbH  
Wunstorfer Straße 40  
30926 Seelze  
Germany  
Telephone : (49) 5137-999 0  
Telefax : (49) 5137-999 123  
For further information, please contact: : PMTEU Product Stewardship:  
SafetyDataSheet@Honeywell.com  
Honeywell International, Inc.  
115 Tabor Road  
Morris Plains, NJ 07950-2546  
USA

**1.4. Emergency telephone number**

Emergency telephone number : +1-703-527-3887 (ChemTrec-Transport)  
+1-303-389-1414 (Medical)  
Country based Poison Control Center : see chapter 15.1

**SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture**

**REGULATION (EC) No 1272/2008**

Carcinogenicity Category 2  
H351 Suspected of causing cancer.

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Reproductive toxicity Category 1B  
H360D May damage the unborn child.  
Specific target organ toxicity - repeated exposure Category 2  
H373 May cause damage to organs through prolonged or repeated exposure.

**2.2. Label elements**

**REGULATION (EC) No 1272/2008**

Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	H351 Suspected of causing cancer. H360D May damage the unborn child. H373 May cause damage to organs through prolonged or repeated exposure if inhaled (Liver)
Precautionary statements	:	P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. P284 In case of inadequate ventilation wear respiratory protection. P308 + P313 IF exposed or concerned: Get medical advice/ attention.
Hazardous components which must be listed on the label	:	iodine imidazole 2-Methylimidazole
Special labelling of certain products:	:	Restricted to professional users.

**2.3. Other hazards**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**SECTION 3: Composition/information on ingredients**

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**3.1. Substance**

Not applicable

**3.2. Mixture**

Chemical name	CAS-No. Index-No. REACH Registration Number EC-No.	Classification 1272/2008	Concentration	Remarks
2-(2-Ethoxyethoxy)ethanol	111-90-0 203-919-7		> 65 % - < 75 %	N.C.*
sulphur dioxide	7446-09-5 016-011-00-9 01-2119485028-34 231-195-2	Press. Gas Liquefied gas; H280 Acute Tox. 3; H331 Skin Corr. 1B; H314	>= 5 % - < 10 %	1*
1H-Imidazole monohydriodide	68007-08-9 01-0000019482-69 460-240-0	Acute Tox. 4; H302	>= 5 % - < 10 %	1*
iodine	7553-56-2 053-001-00-3 01-2119485285-30 231-442-4	Acute Tox. 4; H302 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335 STOT RE 1; H372 Aquatic Acute 1; H400	>= 5 % - < 10 %	1*
imidazole	288-32-4 613-319-00-0 01-2119485825-24 206-019-2	Acute Tox. 4; H302 Skin Corr. 1C; H314 Eye Dam. 1; H318 Repr. 1B; H360D	>= 5 % - < 10 %	1*
2-Methylimidazole	693-98-1 211-765-7	Acute Tox. 4; H302 Skin Corr. 1C; H314 Carc. 2; H351 Repr. 1B; H360D	>= 5 % - < 10 %	1*

1\* - For specific concentration limits see Annexes of 1272/2008

N.C.\* - Non-hazardous substance - for information only

Remaining components of this product are non-hazardous and/or are present at concentrations below reportable limits.

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

For the full text of the H-Statements mentioned in this Section, see Section 16.

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**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

*General advice:*

First aider needs to protect himself. Move out of dangerous area. Take off all contaminated clothing immediately.

*Inhalation:*

Move to fresh air. Keep patient warm and at rest. Call a physician immediately.

*Skin contact:*

Wash off immediately with plenty of water. If skin irritation persists, call a physician.

*Eye contact:*

In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Protect unharmed eye.

*Ingestion:*

When swallowed, allow water to be drunk. Do NOT induce vomiting. Call a physician immediately.

**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**

Treat symptomatically.

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

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**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

*Suitable extinguishing media:*

Water spray  
Foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry powder

*Extinguishing media which shall not be used for safety reasons:*  
Do not use a solid water stream as it may scatter and spread fire.

**5.2. Special hazards arising from the substance or mixture**

Fire may cause evolution of:  
Carbon monoxide  
Carbon dioxide (CO<sub>2</sub>)  
Sulphur oxides  
Nitrogen oxides (NO<sub>x</sub>)

**5.3. Advice for firefighters**

In the event of fire, wear self-contained breathing apparatus.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

Evacuate personnel to safe areas. Wear personal protective equipment. Unprotected persons must be kept away. Ensure adequate ventilation. Remove all sources of ignition.

**6.2. Environmental precautions**

Should not be released into the environment.

**6.3. Methods and materials for containment and cleaning up**

Ventilate the area.  
Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

**6.4. Reference to other sections**

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For personal protection see section 8.

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

*Advice on safe handling:*

Wear personal protective equipment. Use only in well-ventilated areas.

*Advice on protection against fire and explosion:*

Keep away from sources of ignition - No smoking. Normal measures for preventive fire protection.

*Hygiene measures:*

Take off all contaminated clothing immediately. Remove and wash contaminated clothing before re-use. Wash hands before breaks and at the end of workday. When using do not eat or drink.

**7.2. Conditions for safe storage, including any incompatibilities**

*Requirements for storage areas and containers:*

Keep only in the original container, tightly closed, in a well ventilated place. Store at room temperature. (Ambient temperature: > 0 < 35°C) Protect from atmospheric moisture and water.

**7.3. Specific end use(s)**

no additional data available

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

**Occupational exposure limits:**

Components	Basis / Value type	Value / Form of exposure	Exceeding Factor	Remarks
iodine	EH40 WEL			Listed
iodine	EH40 WEL STEL	1,1 mg/m3 0,1 ppm		

STEL - Short term exposure limit

**DNEL/ PNEC-Values**

Component	End-use/impact	Exposure duration	Value	Exposure routes	Remarks
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imidazole	Workers / Long-term systemic effects		10,6 mg/m3	Inhalation	
imidazole	Workers / Long-term systemic effects		1,5mg/kg bw/d	Skin contact	
sulphur dioxide	Workers / Long-term local effects		1,3 mg/m3	Inhalation	
sulphur dioxide	Workers / Acute local effects		2,7 mg/m3	Inhalation	
sulphur dioxide	Consumers / Long-term local effects		0,53 mg/m3	Inhalation	
iodine	Workers / Long-term systemic effects		0,07 mg/m3	Inhalation	
iodine	Workers / Long-term systemic effects		0,01mg/kg bw/d	Skin contact	

Component	Environmental compartment / Value	Remarks
imidazole	Fresh water: 0,13 mg/l	Assessment factor: 1000
imidazole	Marine sediment: 0,013 mg/l	Assessment factor: 10000
imidazole	Sewage treatment plant: 10 mg/l	Assessment factor: 100
imidazole	Fresh water sediment: 0,336 mg/kg dw	
imidazole	Marine sediment: 0,0425 mg/kg dw	
imidazole	Soil: 0,0425 mg/kg dw	
sulphur dioxide	:	No data available
iodine	Fresh water sediment: 0,01813 mg/l	
iodine	Marine water: 0,06001 mg/l	

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iodine	Sewage treatment plant: 11 mg/l	Assessment factor: 10
iodine	Fresh water sediment: 3,99 mg/kg dw	
iodine	Marine sediment: 20,22 mg/kg dw	
iodine	Soil: 5,95 mg/kg dw	

## 8.2. Exposure controls

### Occupational exposure controls

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, 511; safety shoes EN-ISO 20345.

Do not breathe vapours or spray mist.

### Engineering measures

Use with local exhaust ventilation.

Prevent vapour buildup by providing adequate ventilation during and after use.

### Personal protective equipment

*Respiratory protection:*

Recommended Filter type:

ABEK

In case of insufficient ventilation wear suitable respiratory equipment.

*Hand protection:*

Glove material: Nitrile rubber

Break through time: > 480 min

Glove thickness: 0,4 mm

Camatril® 730

Gloves must be inspected prior to use.

Replace when worn.

Remarks:Supplementary note: The specifications are based on information and tests from similar substances by analogy.

Due to varying conditions ( e.g.temperature or other strains) it must be considered that the usage of a chemical protective glove in practice may be much shorter than the permeation time determined in accordance with EN 374.

Since actual conditions of practical use often deviate from standardised conditions according EN 374 the glove manufacturer recommends to use the chemical protective glove in practice not longer than 50% of the recommended permeation time.

Manufacturer´s directions for use should be observed because of great diversity of types .

Suitable gloves tested according EN 374 are supplied e.g. from KCL GmbH, D-36124 Eichenzell, Vertrieb@kcl.de

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*Eye protection:*

Safety goggles

*Skin and body protection:*

Protective suit

**Environmental exposure controls**

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

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**SECTION 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

Form	:	liquid
Colour	:	brown
Odour	:	characteristic
Melting point/range	:	No data available
Boiling point/boiling range	:	194 °C at 1.013 hPa
Flash point	:	99 °C
Flammability (solid, gas)	:	Not applicable
Ignition temperature	:	No data available
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Lower explosion limit	:	No data available
Upper explosion limit	:	No data available
Vapour pressure	:	No data available
Density	:	ca. 1,17 g/cm <sup>3</sup> at 25 °C
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available

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pH	:	4,5 - 5,5 at 20 °C
Water solubility	:	completely miscible
Partition coefficient: n- octanol/water	:	No data available
Relative vapour density	:	No data available
Evaporation rate	:	No data available

**9.2 Other Information**

no additional data available

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**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

Stable under normal conditions.

**10.2. Chemical stability**

No decomposition if used as directed.

**10.3. Possibility of hazardous reactions**

Hazardous polymerisation does not occur.

**10.4. Conditions to avoid**

Protect from atmospheric moisture and water.  
Heat, flames and sparks.

**10.5. Incompatible materials**

Strong oxidizing agents

**10.6. Hazardous decomposition products**

In case of fire hazardous decomposition products may be produced such as:

Carbon monoxide  
Carbon dioxide (CO<sub>2</sub>)  
Sulphur oxides  
Nitrogen oxides (NO<sub>x</sub>)

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**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

*Acute oral toxicity:*

LD50

Species: Rat

Value: > 2.000 mg/kg

Method: OECD 423

*Acute dermal toxicity:*

LD50

Species: Rat

Value: > 2.000 mg/kg

Method: OECD Test Guideline 402

*Acute inhalation toxicity:*

No data available

*Skin irritation:*

Species: Rabbit

Result: No skin irritation

Method: OECD Test Guideline 404

*Eye irritation:*

Species: Rabbit

Result: No eye irritation

Method: OECD Test Guideline 405

*Respiratory or skin sensitisation:*

No data available

*Germ cell mutagenicity:*

Test Method: Ames test

Result: negative

*Aspiration hazard:*

No data available

*Other information:*

Causes damage to organs through prolonged or repeated exposure (Thyroid).

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**SECTION 12: Ecological information**

**12.1. Toxicity**

*Toxicity to fish:*

No data available

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*Toxicity to aquatic plants:*

No data available

*Toxicity to aquatic invertebrates:*

No data available

**12.2. Persistence and degradability**

*Biodegradability:*

Biodegradation: 78 %

Exposure time: 14 d

Result: Readily biodegradable.

Method: OECD 302 B

**12.3. Bioaccumulative potential**

No data available

**12.4. Mobility in soil**

No data available

**12.5. Results of PBT and vPvB assessment**

No data available

**12.6. Other adverse effects**

No data available

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**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

*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; 2008/98/EEC

Regulation No. 1013/2006

For personal protection see section 8.

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**SECTION 14: Transport information**

**ADR/RID**

Not dangerous goods

**IATA**

Not dangerous goods

**IMDG**

Not dangerous goods

**SECTION 15: Regulatory information**

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

Basis	Value	Remarks
Directive 2012/18/EC		Not applicable

Basis	Value	Remarks
Substances of very high concern (SVHC)		This product does contain substances of very high concern according to Regulation (EC) No Article 57 above the respective regulatory 1907/2006 (REACH), concentration limit of $\geq 0.1$ % (w/w).

**Poison Control Center**

Country	Phone Number
Austria	+4314064343
Belgium	070 245245
Bulgaria	(+35929154233
Croatia	(+3851)23-48-342
Cyprus	+357 2240 5611
Czech Republic	+420224919293; +420224915402
Denmark	82121212
Estonia	16662; (+372)6269390

Country	Phone Number
Liechtenstein	+41 442515151
Lithuania	+370532362052
Luxembourg	070245245; (+352)80002-5500
Malta	+356 2395 2000
Netherlands	030-2748888
Norway	22591300
Poland	+48 42 25 38 400
Portugal	808250143

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Finland	9471977
France	+33(0)145425959
Greece	+30 210 779 3777
Hungary	(+36-80)201-199
Iceland	5432222
Ireland	+353(1)8092166
Italy	0382 24444
Germany	Berlin : 030/19240
	Bonn : 0228/19240
	Erfurt : 0361/730730
	Freiburg : 0761/19240
	Göttingen : 0551/19240
	Homburg : 06841/19240
	Mainz : 06131/19240
Munich : 089/19240	
Latvia	+37167042473

Romania	+40 21 318 3606
Slovakia (NTIC)	+421 2 54 774 166
Slovenia	+386 1 400 6051
Spain	+34915620420
Sweden	112 (begär Giftinformation);+46104566786
Switzerland	145
United Kingdom	(+44) 844 892 0111

**Other inventory information**

**US. Toxic Substances Control Act**

All chemical substances in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.

**Australia. Industrial Chemical (Notification and Assessment) Act**

On the inventory, or in compliance with the inventory

**China. Inventory of Existing Chemical Substances (IECSC)**

On the inventory, or in compliance with the inventory

**Note**

Note: Because of the potential specific inventory listing of components of this product line, further, more detailed information can be requested from [SafetyDataSheet@Honeywell.com](mailto:SafetyDataSheet@Honeywell.com).

**15.2 Chemical safety assessment**

A Chemical Safety Assessment has not been carried out.

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**SECTION 16: Other information**

**Text of H-statements referred to under heading 3**

Sulphur dioxide	:	H280 H331 H314	Contains gas under pressure; may explode if heated. Toxic if inhaled. Causes severe skin burns and eye damage.
1H-Imidazole monohydriodide	:	H302	Harmful if swallowed.
Iodine	:	H302 + H312 + H332 H315 H319 H335 H372 H400	Harmful if swallowed, in contact with skin or if inhaled. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. Causes damage to organs through prolonged or repeated exposure. Very toxic to aquatic life.
Imidazole	:	H302 H314 H360D	Harmful if swallowed. Causes severe skin burns and eye damage. May damage the unborn child.
2-Methylimidazole	:	H302 H314 H351 H360D	Harmful if swallowed. Causes severe skin burns and eye damage. Suspected of causing cancer. May damage the unborn child.

**Further information**

All directives and regulations refer to amended versions.  
Vertical lines in the left hand margin indicate a relevant amendment from the previous version.

Abbreviations:

EC European Community  
CAS Chemical Abstracts Service  
DNEL Derived no effect level  
PNEC Predicted no effect level  
vPvB Very persistent and very bioaccumulative substance  
PBT Persistent, bioaccumulative und toxic substance

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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.

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