



## SAFETY DATA SHEET

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

#### 1.1. Product identifier

**Trade name or designation of the mixture** HumiSeal 1C49

**Registration number** -

**Synonyms** None.

**Product code** BR0000-965

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

**Identified uses** Protective Coating for Printed Circuit Board

**Uses advised against** No other uses are advised.

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

##### Supplier

**Company name** HUMISEAL EUROPE LTD.  
**Address** 505 Eskdale Road  
Winnersh  
Wokingham Berkshire RG41 5TU  
UK

**Division** A CHASE CORPORATION COMPANY

**Telephone** General Assistance +44 (0) 118 944 2333

**e-mail** europetechsupport@chasecorp.com

**Contact person** Not available.

**1.4. Emergency telephone number** Chemtrec U.K. +44 (0) 870 820 0418

**General in EU** 112 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

**National Poisons Information Center (NVIC)** 030-274 88 88 (Only for the purpose of informing medical personnel in cases of acute intoxications)

### SECTION 2: Hazards identification

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

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

#### Classification according to Regulation (EC) No 1272/2008 as amended

##### Health hazards

|                                   |             |                                             |
|-----------------------------------|-------------|---------------------------------------------|
| Serious eye damage/eye irritation | Category 2  | H319 - Causes serious eye irritation.       |
| Skin sensitisation                | Category 1B | H317 - May cause an allergic skin reaction. |

**Hazard summary** Causes serious eye irritation. May cause an allergic skin reaction.

#### 2.2. Label elements

#### Label according to Regulation (EC) No. 1272/2008 as amended

**Contains:** 3-Aminopropyltriethoxysilane, Butan-2-one O,O',O''-(vinylsilyldiyl)trioxime

## Hazard pictograms



### Signal word

Warning

### Hazard statements

H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.

### Precautionary statements

#### Prevention

P261 Avoid breathing mist/vapours.  
P280 Wear eye protection/face protection.  
P280 Wear protective gloves.

#### Response

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.  
P337 + P313 If eye irritation persists: Get medical advice/attention.  
P362 + P364 Take off contaminated clothing and wash it before reuse.

#### Storage

Not available.

#### Disposal

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

### Supplemental label information

1 % of the mixture consists of component(s) of unknown acute dermal toxicity. 5 % of the mixture consists of component(s) of unknown acute inhalation toxicity. 15 % of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 15 % of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

### 2.3. Other hazards

This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII. The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### General information

| Chemical name                                                                                  | %         | CAS-No. / EC No.        | REACH Registration No. | Index No.    | Notes |
|------------------------------------------------------------------------------------------------|-----------|-------------------------|------------------------|--------------|-------|
| Silane, dichlorodimethyl-, reaction products with silica                                       | 10 - < 20 | 68611-44-9<br>271-893-4 | -                      | -            |       |
| <b>Classification:</b> Acute Tox. 4;H332;(ATE: 2,19 mg/l)                                      |           |                         |                        |              |       |
| 3-Aminopropyltriethoxysilane                                                                   | 1 - < 3   | 919-30-2<br>213-048-4   | 01-2119480479-24-xxxx  | 612-108-00-0 |       |
| <b>Classification:</b> Acute Tox. 4;H302;(ATE: 500 mg/kg), Skin Corr. 1B;H314, Eye Dam. 1;H318 |           |                         |                        |              |       |
| Butan-2-one<br>O,O',O''-(vinylsilyldiene)trioxime                                              | 1 - < 3   | 2224-33-1<br>218-747-8  | -                      | -            |       |
| <b>Classification:</b> Eye Dam. 1;H318, Skin Sens. 1B;H317, STOT RE 2;H373                     |           |                         |                        |              |       |

#### List of abbreviations and symbols that may be used above

ATE: Acute toxicity estimate.

M: M-factor

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. #: This substance has been assigned Union workplace exposure limit(s).

#### Composition comments

The full text for all H-statements is displayed in section 16.

## SECTION 4: First aid measures

#### General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

#### 4.1. Description of first aid measures

##### Inhalation

Move to fresh air. Call a physician if symptoms develop or persist.

##### Skin contact

Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.

##### Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

##### Ingestion

Rinse mouth. Get medical attention if symptoms occur.

|                                                                                        |                                                                                                                                                              |
|----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>4.2. Most important symptoms and effects, both acute and delayed</b>                | Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause an allergic skin reaction. Dermatitis. Rash. |
| <b>4.3. Indication of any immediate medical attention and special treatment needed</b> | Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.                                       |

## SECTION 5: Firefighting measures

|                                                                   |                                                                                               |
|-------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| <b>General fire hazards</b>                                       | No unusual fire or explosion hazards noted.                                                   |
| <b>5.1. Extinguishing media</b>                                   |                                                                                               |
| <b>Suitable extinguishing media</b>                               | Water fog. Foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).                      |
| <b>Unsuitable extinguishing media</b>                             | Do not use water jet as an extinguisher, as this will spread the fire.                        |
| <b>5.2. Special hazards arising from the substance or mixture</b> | During fire, gases hazardous to health may be formed.                                         |
| <b>5.3. Advice for firefighters</b>                               |                                                                                               |
| <b>Special protective equipment for firefighters</b>              | Self-contained breathing apparatus and full protective clothing must be worn in case of fire. |
| <b>Special fire fighting procedures</b>                           | Move containers from fire area if you can do so without risk.                                 |
| <b>Specific methods</b>                                           | Use standard firefighting procedures and consider the hazards of other involved materials.    |

## SECTION 6: Accidental release measures

|                                                                                 |                                                                                                                                                                                                                                             |
|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>6.1. Personal precautions, protective equipment and emergency procedures</b> |                                                                                                                                                                                                                                             |
| <b>For non-emergency personnel</b>                                              | Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapours. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.                                       |
| <b>For emergency responders</b>                                                 | Keep unnecessary personnel away. Avoid breathing mist/vapours. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. Use personal protection recommended in Section 8 of the SDS.  |
| <b>6.2. Environmental precautions</b>                                           | Avoid discharge into drains, water courses or onto the ground.                                                                                                                                                                              |
| <b>6.3. Methods and material for containment and cleaning up</b>                | This product is miscible in water.                                                                                                                                                                                                          |
|                                                                                 | Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. |
|                                                                                 | Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.                                                                                                              |
|                                                                                 | Never return spills to original containers for re-use.                                                                                                                                                                                      |
| <b>6.4. Reference to other sections</b>                                         | For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.                                                                                                                                           |

## SECTION 7: Handling and storage

|                                                                          |                                                                                                                                                                                                                               |
|--------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>7.1. Precautions for safe handling</b>                                | Avoid breathing mist/vapours. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. |
| <b>7.2. Conditions for safe storage, including any incompatibilities</b> | Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).                                                                                                                        |
| <b>7.3. Specific end use(s)</b>                                          | Not available.                                                                                                                                                                                                                |

## SECTION 8: Exposure controls/personal protection

|                                                   |                                                            |
|---------------------------------------------------|------------------------------------------------------------|
| <b>8.1. Control parameters</b>                    |                                                            |
| <b>Occupational exposure limits</b>               | No exposure limits noted for ingredient(s).                |
| <b>Biological limit values</b>                    | No biological exposure limits noted for the ingredient(s). |
| <b>Recommended monitoring procedures</b>          | Follow standard monitoring procedures.                     |
| <b>Derived no effect levels (DNELs)</b>           | Not available.                                             |
| <b>Predicted no effect concentrations (PNECs)</b> | Not available.                                             |
| <b>8.2. Exposure controls</b>                     |                                                            |

|                                                                              |                                                                                                                                                                                                                                                                                                                                                                                    |
|------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Appropriate engineering controls</b>                                      | Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station. |
| <b>Individual protection measures, such as personal protective equipment</b> |                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>General information</b>                                                   | Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.                                                                                                                                                                             |
| <b>Eye/face protection</b>                                                   | Wear safety glasses with side shields (or goggles). Face shield is recommended.                                                                                                                                                                                                                                                                                                    |
| <b>Skin protection</b>                                                       |                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>- Hand protection</b>                                                     | Wear appropriate chemical resistant gloves.                                                                                                                                                                                                                                                                                                                                        |
| <b>- Other</b>                                                               | Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.                                                                                                                                                                                                                                                                                           |
| <b>Respiratory protection</b>                                                | In case of insufficient ventilation, wear suitable respiratory equipment.                                                                                                                                                                                                                                                                                                          |
| <b>Thermal hazards</b>                                                       | Not applicable.                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Hygiene measures</b>                                                      | Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.                                                                                       |
| <b>Environmental exposure controls</b>                                       | Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to acceptable levels.                                                                               |

## SECTION 9: Physical and chemical properties

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

|                                                                 |                             |
|-----------------------------------------------------------------|-----------------------------|
| <b>Physical state</b>                                           | Liquid.                     |
| <b>Colour</b>                                                   | Translucent                 |
| <b>Odour</b>                                                    | Characteristic.             |
| <b>Melting point/freezing point</b>                             | 1710 °C (3110 °F) estimated |
| <b>Boiling point or initial boiling point and boiling range</b> | 2230 °C (4046 °F) estimated |
| <b>Flammability (solid, gas)</b>                                | Not applicable.             |
| <b>Flash point</b>                                              | 102,0 °C (215,6 °F)         |
| <b>Auto-ignition temperature</b>                                | Not available.              |
| <b>Decomposition temperature</b>                                | Not available.              |
| <b>pH</b>                                                       | Does not apply.             |
| <b>Solubility(ies)</b>                                          |                             |
| <b>Solubility (water)</b>                                       | Negligible                  |
| <b>Partition coefficient (n-octanol/water)</b>                  | Not available.              |
| <b>Vapour pressure</b>                                          | 0,00001 hPa estimated       |
| <b>Vapour density</b>                                           | Not available.              |
| <b>Relative density</b>                                         | Not available.              |
| <b>Particle characteristics</b>                                 | Not available.              |

### 9.2. Other information

|                                                                  |                                               |
|------------------------------------------------------------------|-----------------------------------------------|
| <b>9.2.1. Information with regard to physical hazard classes</b> | No relevant additional information available. |
|------------------------------------------------------------------|-----------------------------------------------|

#### 9.2.2. Other safety characteristics

|                              |                 |
|------------------------------|-----------------|
| <b>Brookfield viscosity</b>  | 7500 - 10500 cP |
| <b>Density</b>               | 0,97 g/cm3      |
| <b>Explosive properties</b>  | Not explosive.  |
| <b>Miscible (water)</b>      | Negligible      |
| <b>Oxidising properties</b>  | Not oxidising.  |
| <b>Percent volatile</b>      | < 5 % v/v       |
| <b>Specific gravity</b>      | 0,97            |
| <b>Viscosity</b>             | 7500 - 10500 cP |
| <b>Viscosity temperature</b> | 25 °C (77 °F)   |
| <b>VOC</b>                   | 0 g/l           |

## SECTION 10: Stability and reactivity

|                                          |                                                                                               |
|------------------------------------------|-----------------------------------------------------------------------------------------------|
| 10.1. Reactivity                         | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| 10.2. Chemical stability                 | Material is stable under normal conditions.                                                   |
| 10.3. Possibility of hazardous reactions | No dangerous reaction known under conditions of normal use.                                   |
| 10.4. Conditions to avoid                | Contact with incompatible materials.                                                          |
| 10.5. Incompatible materials             | Strong oxidising agents.                                                                      |
| 10.6. Hazardous decomposition products   | No hazardous decomposition products are known.                                                |

## SECTION 11: Toxicological information

|                     |                                                                              |
|---------------------|------------------------------------------------------------------------------|
| General information | Occupational exposure to the substance or mixture may cause adverse effects. |
|---------------------|------------------------------------------------------------------------------|

### Information on likely routes of exposure

|              |                                                                                                                     |
|--------------|---------------------------------------------------------------------------------------------------------------------|
| Inhalation   | Prolonged inhalation may be harmful.                                                                                |
| Skin contact | May cause an allergic skin reaction.                                                                                |
| Eye contact  | Causes serious eye irritation.                                                                                      |
| Ingestion    | May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure. |

|          |                                                                                                                                                              |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Symptoms | Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause an allergic skin reaction. Dermatitis. Rash. |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|

### 11.1. Information on toxicological effects

|                |            |
|----------------|------------|
| Acute toxicity | Not known. |
|----------------|------------|

| Components                                                                | Species                                                                     | Test Results           |
|---------------------------------------------------------------------------|-----------------------------------------------------------------------------|------------------------|
| Butan-2-one O,O',O''-(vinylsilylidyne)trioxime (CAS 2224-33-1)            |                                                                             |                        |
| <b>Acute</b>                                                              |                                                                             |                        |
| <b>Dermal</b>                                                             |                                                                             |                        |
| LD50                                                                      | Rat                                                                         | > 2009 mg/kg, 24 Hours |
| <b>Oral</b>                                                               |                                                                             |                        |
| LD50                                                                      | Rat                                                                         | > 2000 mg/kg           |
| Silane, dichlorodimethyl-, reaction products with silica (CAS 68611-44-9) |                                                                             |                        |
| <b>Acute</b>                                                              |                                                                             |                        |
| <b>Dermal</b>                                                             |                                                                             |                        |
| LD50                                                                      | Rabbit                                                                      | > 2000 mg/kg, 24 Hours |
| <b>Inhalation</b>                                                         |                                                                             |                        |
| <i>Dust</i>                                                               |                                                                             |                        |
| LC50                                                                      | Rat                                                                         | 2,19 mg/l, 4 Hours     |
| <b>Oral</b>                                                               |                                                                             |                        |
| LD50                                                                      | Rat                                                                         | > 2000 mg/kg           |
| <b>Skin corrosion/irritation</b>                                          | Due to partial or complete lack of data the classification is not possible. |                        |
| <b>Serious eye damage/eye irritation</b>                                  | Causes serious eye irritation.                                              |                        |
| <b>Respiratory sensitisation</b>                                          | Due to partial or complete lack of data the classification is not possible. |                        |
| <b>Skin sensitisation</b>                                                 | May cause an allergic skin reaction.                                        |                        |
| <b>Germ cell mutagenicity</b>                                             | Due to partial or complete lack of data the classification is not possible. |                        |
| <b>Carcinogenicity</b>                                                    | Due to partial or complete lack of data the classification is not possible. |                        |
| <b>IARC Monographs. Overall Evaluation of Carcinogenicity</b>             |                                                                             |                        |
| Silane, dichlorodimethyl-, reaction products with silica (CAS 68611-44-9) | 3 Not classifiable as to carcinogenicity to humans.                         |                        |
| <b>Reproductive toxicity</b>                                              | Due to partial or complete lack of data the classification is not possible. |                        |
| <b>Specific target organ toxicity - single exposure</b>                   | Due to partial or complete lack of data the classification is not possible. |                        |
| <b>Specific target organ toxicity - repeated exposure</b>                 | Due to partial or complete lack of data the classification is not possible. |                        |
| <b>Aspiration hazard</b>                                                  | Due to partial or complete lack of data the classification is not possible. |                        |
| <b>Mixture versus substance information</b>                               | No information available.                                                   |                        |

## 11.2. Information on other hazards

|                                        |                                                                                                                                                                                                                              |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Endocrine disrupting properties</b> | The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. |
| <b>Other information</b>               | Not available.                                                                                                                                                                                                               |

## SECTION 12: Ecological information

|                                                        |                                                                                                                                                                                                                              |
|--------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>12.1. Toxicity</b>                                  | Based on available data, the classification criteria are not met for hazardous to the aquatic environment.                                                                                                                   |
| <b>12.2. Persistence and degradability</b>             | No data is available on the degradability of any ingredients in the mixture.                                                                                                                                                 |
| <b>12.3. Bioaccumulative potential</b>                 | No data available.                                                                                                                                                                                                           |
| <b>Partition coefficient n-octanol/water (log Kow)</b> | Not available.                                                                                                                                                                                                               |
| <b>Bioconcentration factor (BCF)</b>                   | Not available.                                                                                                                                                                                                               |
| <b>12.4. Mobility in soil</b>                          | No data available.                                                                                                                                                                                                           |
| <b>12.5. Results of PBT and vPvB assessment</b>        | This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII.                                                                                                    |
| <b>12.6. Endocrine disrupting properties</b>           | The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. |
| <b>12.7. Other adverse effects</b>                     | No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.                                      |

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

|                                     |                                                                                                                                                                                                                  |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Residual waste</b>               | Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). |
| <b>Contaminated packaging</b>       | Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.       |
| <b>EU waste code</b>                | The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.                                                                                                   |
| <b>Disposal methods/information</b> | Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.                         |
| <b>Special precautions</b>          | Dispose in accordance with all applicable regulations.                                                                                                                                                           |

## SECTION 14: Transport information

### ADR

14.1. - 14.6.: Not regulated as dangerous goods.

### RID

14.1. - 14.6.: Not regulated as dangerous goods.

### ADN

14.1. - 14.6.: Not regulated as dangerous goods.

### IATA

14.1. - 14.6.: Not regulated as dangerous goods.

### IMDG

14.1. - 14.6.: Not regulated as dangerous goods.

**14.7. Maritime transport in bulk according to IMO instruments** Not established.

## SECTION 15: Regulatory information

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

#### EU regulations

**Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended**  
Not listed.

**Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended**  
Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended**  
Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended**  
Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended**

Not listed.

**Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended**

Silane, dichlorodimethyl-, reaction products with silica (CAS 68611-44-9)

**Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA**

Not listed.

#### Authorisations

**Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended**

Not listed.

#### Restrictions on use

**Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended**

3-Aminopropyltriethoxysilane (CAS 919-30-2)

**Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.**

Not listed.

#### Other EU regulations

**Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended**

Not listed.

#### Other regulations

The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

#### National regulations

Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as amended.

#### Non-exhaustive list of substances toxic for reproduction

Not listed.

#### SZW list of carcinogenic substances

Not listed.

#### SZW list of mutagenic substances

Not listed.

#### 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

### SECTION 16: Other information

#### List of abbreviations

ADN: European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways.  
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.  
CAS: Chemical Abstract Service.  
CEN: European Committee for Standardization.  
IATA: International Air Transport Association.  
IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk.  
IMDG: International Maritime Dangerous Goods.  
MARPOL: International Convention for the Prevention of Pollution from Ships.  
PBT: Persistent, bioaccumulative and toxic.  
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.  
STEL: Short term exposure limit.  
TWA: Time Weighted Average.  
vPvB: Very persistent and very bioaccumulative.

#### References

Not available.

#### Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

#### Full text of any H-statements not written out in full under Sections 2 to 15

H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H332 Harmful if inhaled.  
H373 May cause damage to organs through prolonged or repeated exposure.

#### Revision information

This document has undergone significant changes and should be reviewed in its entirety.

#### Training information

Follow training instructions when handling this material.

## Disclaimer

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create any warranty, expressed or implied. It is the responsibility of the user to determine the applicability of this information and the suitability of the material or product for any particular purpose. The information offered in this data sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication, however, no guarantee is made to its accuracy. This 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 other process. This material is intended for industrial use only. No warranty, expressed or implied is made.