

**Gradus Grip**

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Product name – Gradus Grip

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

Identified uses - Cartridge Dispensed Adhesive.

Uses advised against - None

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

GRADUS Limited  
 Park Green  
 Macclesfield  
 Cheshire  
 SK11 7LZ

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**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture**

Physical hazards - Not Classified

Health hazards - Not Classified

Environmental hazards - Not Classified

Classification (67/548/EEC or 1999/45/EC)

**2.2. Label elements**

Hazard statements - NC Not Classified.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures**

<b>VINYLTRIMETHOXYSILANE 1-5%</b> <b>CAS number:</b> 2768-02-7	<b>EC number:</b> —
<b>Classification</b> Flam. Liq. 3 - H226 Acute Tox. 4 - H332	<b>Classification (67/548/EEC or 1999/45/EC)</b> Xn;R20. R10.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

Composition comments Mixture based on polyurethane prepolymer.

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### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

**General information** - Remove affected person from source of contamination.

**Inhalation** - Move affected person to fresh air at once. Get medical attention if any discomfort continues.

**Ingestion** - Rinse mouth thoroughly with water. Give plenty of water to drink. Do not induce vomiting. Get medical attention if any discomfort continues.

**Skin contact** - Wash skin thoroughly with soap and water. Remove contaminated clothing. Get medical attention if irritation persists after washing.

**Eye contact** - Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention immediately if irritation persists after washing. Show this Safety Data Sheet to the medical personnel.

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

**General information** - The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

**Inhalation** - No specific symptoms known.

**Ingestion** - No specific symptoms known.

**Skin contact** - No specific symptoms known.

**Eye contact** - May cause severe irritation, burning and lachrymation.

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

**Notes for the doctor** - Treat symptomatically

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

**Suitable extinguishing media** - Extinguish with the following media: Small fires: Foam, carbon dioxide or dry powder. Larger fires: Water spray.

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

**Specific hazards** - No unusual fire or explosion hazards noted.

#### Hazardous combustion products

Does not decompose when used and stored as recommended.

#### 5.3. Advice for firefighters

**Protective actions during firefighting** - No specific firefighting precautions known.

**Special protective equipment for firefighters** - Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing

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### SECTION 6: Accidental release measures

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

**Personal precautions** - Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate.

#### 6.2. Environmental precautions

**Environmental precautions** - Avoid the spillage or runoff entering drains, sewers or watercourses.

#### 6.3. Methods and material for containment and cleaning up

**Methods for cleaning up** - Contain and absorb spillage with sand, earth or other non-combustible material. Collect and place in suitable waste disposal containers and seal securely. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate.

#### 6.4. Reference to other sections

**Reference to other sections** - For personal protection, see Section 8. See Section 11 for additional information on health hazards. For waste disposal, see section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

**Usage precautions** - Provide adequate ventilation. Do not eat, drink or smoke when using the product. Good personal hygiene procedures should be implemented.

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

**Storage precautions** - Keep separate from food, feedstuffs, fertilisers and other sensitive material. Store in tightly-closed, original container in a dry, cool and well-ventilated place.

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

**Specific end use(s)** - The identified uses for this product are detailed in Section 1.2.

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### SECTION 8: Exposure Controls/personal protection

#### 8.1. Control parameters

##### Occupational exposure limits

##### ETHANEDIOL

Long-term exposure limit (8-hour TWA): WEL 20 ppm 10 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 40 ppm 104 mg/m<sup>3</sup>

Sk

WEL = Workplace Exposure Limit

Sk = Can be absorbed through skin.

#### 8.2. Exposure controls

##### Protective equipment



##### Appropriate engineering controls

Provide adequate ventilation.

##### Personal protection

Always check applicability with your supplier of protective equipment.

##### Eye/face protection

Wear chemical resistant, splash proof goggles or visor approved to BS EN166.

##### Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. Nitrile gloves to BSEN374 are recommended. Break through times can vary depending on thickness, use and source. Change gloves regularly.

##### Other skin and body protection

Wear suitable protective clothing as protection against splashing or contamination. Wear apron or protective clothing in case of contact.

##### Hygiene measures

Provide eyewash station.

##### Respiratory protection

Respiratory protection not required.

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**SECTION 9: Physical and Chemical Properties****9.1. Information on basic physical and chemical properties****Appearance** - Paste**Colour** - White/off-white.**Relative density** - 1.6 @ 20°C**Viscosity** - Highly Viscous @ °C**9.2. Other information****SECTION 10: Stability and reactivity****10.1. Reactivity**

The product will harden into a solid mass in contact with water.

**10.2. Chemical stability****Stability** - Stable at normal ambient temperatures and when used as recommended.**10.3. Possibility of hazardous reactions** - Under normal conditions of storage and use, hazardous reactions will not occur.**10.4. Conditions to avoid** - Avoid exposure to high temperatures or direct sunlight.**10.5. Incompatible materials****10.6. Hazardous decomposition products** - Does not decompose when used and stored as recommended.**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Acute toxicity - inhalation****ATE inhalation (vapours mg/l)**

514.31043058

**General information** - No specific health hazards known.**Inhalation** - May cause some discomfort in poorly ventilated areas.**Ingestion** - May cause discomfort if swallowed.**Skin contact** - Prolonged or repeated exposure may cause some irritation of the skin.**Eye contact** - May cause temporary eye irritation.**Medical symptoms** - No specific symptoms noted.**Toxicological information on ingredients.****VINYLTRIMETHOXYSILANE****Acute toxicity - inhalation****ATE inhalation (vapours mg/l)** - 11.0

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**SECTION 12: Ecological Information****Ecotoxicity**

The product should not be allowed to enter drains, sewers or watercourses.

**12.1. Toxicity**

Not measured. Do not allow to enter waterways or drains

**12.2. Persistence and degradability**

**Persistence and degradability** - There are no data on the degradability of this product.

**12.3. Bioaccumulative potential**

No data available on bioaccumulation.

**12.4. Mobility in soil**

**Mobility** - The product is non-volatile.

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

This substance is not classified as PBT or vPvB according to current EU criteria.

**12.6. Other adverse effects**

None known.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

**Disposal methods** - Small quantities may be absorbed in sand and disposed of as low hazard waste. Larger quantities should be disposed of as controlled liquid waste via a licensed waste operator.

**SECTION 14: Transport information**

**General** - The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

**14.1. UN number** - Not applicable.

**UN No. (IMDG)**

**UN No. (ICAO)**

**14.2. UN proper shipping name**

Not applicable.

**14.3. Transport hazard class(es)**

ADR/RID class

ADR/RID subsidiary risk

ADR/RID label

IMDG class

IMDG subsidiary risk

ICAO class/division

ICAO subsidiary risk

Transport labels

**14.4. Packing group**

Not applicable.

ADR/RID packing group

IMDG packing group

ICAO packing group

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**14.5. Environmental hazards****Environmentally hazardous substance/marine pollutant - No.****14.6. Special precautions for user**

Not applicable.

**EmS****Emergency Action Code****Hazard Identification Number****(ADR/RID)****14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations** - Control of Substances Hazardous to Health Regulations 2002 (as amended).**Guidance**

Workplace Exposure Limits EH40. Safety Data Sheets for Substances and Preparations.

**Authorisations (Title VII Regulation 1907/2006)**

No specific authorisations are known for this product.

**Restrictions (Title VIII Regulation 1907/2006)**

No specific restrictions on use are known for this product.

**15.2. Chemical safety assessment**

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**SECTION 16: Risk phrases in full****General information**

Only trained personnel should use this material.

**Key literature references and sources for data**

Health and Safety Executive Guidance Note EH40 (amended annually). Workplace Exposure Limits.

**Revision comments**

This is first issue.

**Revision date** 17/04/2015

**Revision 1**

**SDS number** 20652

**SDS status** Approved.

**Risk phrases in full**

NC Not classified.

R10 Flammable.

R20 Harmful by inhalation.

R36 Irritating to eyes.

**Hazard statements in full**

H226 Flammable liquid and vapour.

H332 Harmful if inhaled.

**Disclaimer**

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 process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.