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

1.1 Product identifier
Trade name: i.CRYSTAL

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

Relevant identified uses
Sealant based on silane modified polymers.

Product Categories [PC]
PC1 - Adhesives, sealants

Uses advised against
None known.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:
i.GLUESYSTEMS GmbH
Ulmerstr. 53/1
D-73262 Reichenbach
Tel.: 0049/(0)7153 929 7885
Fax.: 0049/(0)7153 922 5041

Further information obtainable from:
Tel.: 0049- (0)7153 929 7886
E-Mail: mail@i-gluesystems.com

1.4 Emergency telephone number: Tel.: 0049 (0)551-19240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No. 1272/2008 [CLP]

None

2.2 Label elements
Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Special rules for supplemental label elements for certain mixtures
EUH210 Safety data sheet available on request.

2.3 Other hazards
None

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients
TRIMETHOXY VINYL SILANE ; REACH registration No. : 01-2119513215-52- ; EC No. : 220-449-8;
CAS No. :2768-02-7

Weight fraction : ≥ 1 - < 3 %

Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Acute Tox. 4 ; H332

Additional information
Full text of H- and EUH-phrases: see section 16.
SECTION 4: First aid measures

4.1 Description of first aid measures
General information
If medical advice is needed, have product container, label or safety data sheet at hand.
Following inhalation
Remove casualty to fresh air and keep warm and at rest. Consult a physician in case of symptoms.
In case of skin contact
After contact with skin, wash with plenty of water and soap.
After eye contact
In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist.
After ingestion
Call a physician immediately. If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Small amounts of toxic methanol are released by hydrolysis.

4.2 Most important symptoms and effects, both acute and delayed
None known.

4.3 Indication of any immediate medical attention and special treatment needed
Small amounts of toxic methanol are released by hydrolysis.

SECTION 5: Firefighting measures

5.1 Extinguishing media
Suitable extinguishing media
Carbon dioxide (CO2) Extinguishing powder Water spray alcohol resistant foam

Unsuitable extinguishing media
Full water jet

5.2 Special hazards arising from the substance or mixture
Hazardous combustion products
Carbon monoxide, Carbon dioxide (CO2)

5.3 Advice for firefighters
Do not allow run-off from fire-fighting to enter drains or water courses.
Special protective equipment for firefighters
Use suitable breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protection equipment. Avoid contact with skin and eyes.

6.2 Environmental precautions
Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

6.3 Methods and material for containment and cleaning up
Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal.

6.4 Reference to other sections
See chapter 8.

6.5 Additional information
No dangerous materials are released.

(Contd. on page 3)
# SECTION 7: Handling and storage

## 7.1 Precautions for safe handling
### Protective measures
No special measures are necessary.

## 7.2 Conditions for safe storage, including any incompatibilities
### Technical measures and storage conditions
No particular measures required.

### Hints on joint storage

### Storage class (TRGS 510)
10

### Further information on storage conditions
Protect against Humidity. Containers should be kept dry and sealed.

## 7.3 Specific end use(s)
Sealant based on silane modified polymers. - Observe technical data sheet.

# SECTION 8: Exposure controls/personal protection

## 8.1 Control parameters
### Occupational exposure limit values
- **METHANOL** (resulting by cleavage) ; CAS No. : 67-56-1
  - Limit value type (country of origin) : TRGS 900 (D)
  - Limit value : 200 ppm / 270 mg/m³
  - Peak limitation : 4([II])
  - Remark : H, Y
  - Version : 01.02.2006

### Biological limit values
- **METHANOL** (resulting by cleavage) ; CAS No. : 67-56-1
  - Limit value type (country of origin) : TRGS 903 (D)
  - Parameter : Methanol / Urine (U) / End of exposure or end of shift ; At long term exposure: after several previous shifts
  - Limit value : 30 mg/l
  - Version : 01.09.2001

## 8.2 Exposure controls

### Personal protection equipment

#### Eye/face protection
Use safety glasses. - DIN EN 166

#### Skin protection

#### Hand protection
Wear suitable gloves. - DIN EN 374

### Suitable material (and thickness)
- **CR** (polychloroprene, chloroprene rubber - 0,75 mm) - NBR (Nitrile rubber - 0,85 mm) - IIR (Butyl caoutchouc / butyl rubber - 0,7 mm) - PVC (Polyvinyl chloride - 0,6 mm) - NR (natural rubber, natural latex - 0,9 mm)

### Breakthrough time (maximum wearing time)
The permeation time (max. usage time) of the gloves depends on material and thickness as well as temperature. The data are available from the manufacturer of the specific gloves. The permeation time for the mentioned glove materials is in general > 480 min.

### Recommended glove articles
Appropriate gloves are available e.g. from Mapa-Professionel (F-92205 Neuilly sur Seine - France): STANZOIL R (CR - 0,85 mm) - ULTRANITRIL R (491, 492, 494 oder 495 - NBR - 0,55mm) - INDUSTRIAL R (NR - 0,9 mm)

### Respiratory protection

### General health and safety measures
The usual precautionary measures for the handling of chemicals have to be observed. When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Avoid contact with skin, eyes and clothes.

(Contd. on page 4)
SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance
Physical state: Pasty.
Colour: transparent
Odour: Poor, characteristic.
Odour threshold: No data available

Safety relevant basis data
Melting point/melting range: not applicable
Initial boiling point and boiling range: not applicable
Decomposition temperature: No data available
Flash point: > 61 °C c.c.
Ignition temperature: No data available
Lower explosion limit: not applicable
Upper explosion limit: not applicable
Vapour pressure: (50 °C) No data available
Density: (20 °C) ca. 1.05 g/cm3
Water solubility: (20 °C) Reacts with water
pH: not applicable
log P O/W: No data available
Viscosity: (20 °C) No data available
Relative vapour density: (20 °C) No data available
Vapourisation rate: not applicable
Oxidising liquids: Not oxidizing.
Explosive properties: Not relevant.

9.2 Other information
The product is not self-igniting. The product is not explosive.

SECTION 10: Stability and reactivity

10.1 Reactivity
Product cures with moisture.

10.2 Chemical stability
Product is stable under normal conditions.

10.3 Possibility of hazardous reactions
None known.

10.4 Conditions to avoid
None known.

10.5 Incompatible materials
None known.

10.6 Hazardous decomposition products
No dangerous decomposition products during appropriate storage and handling.
SECTION 11: Toxicological information

11.1 Information on toxicological effects
Assessment/classification
Health hazards
**Acute toxicity (oral)**: No - Based on available data, the classification criteria are not met.
**Acute toxicity (dermal)**: No - Based on available data, the classification criteria are not met.
**Acute toxicity (inhalation)**: No - Based on available data, the classification criteria are not met.
**Skin Corrosion / Irritation**: No - Based on available data, the classification criteria are not met.
**Serious eye damage / eye irritation**: No - Based on available data, the classification criteria are not met.
**Specific target organ toxicity (single exposure)**: No - Based on available data, the classification criteria are not met.
**Specific target organ toxicity (Respiratory tract irritation)**: No - Based on available data, the classification criteria are not met.
**Specific target organ toxicity (Narcosis)**: No - Based on available data, the classification criteria are not met.
**Aspiration hazard**: No - Based on available data, the classification criteria are not met.
**Sensitisation (Respiratory)**: No - Based on available data, the classification criteria are not met.
**Sensitisation (Skin)**: No - Based on available data, the classification criteria are not met.
**Germ cell mutagenicity**: No - Based on available data, the classification criteria are not met.
**Carcinogenicity**: No - Based on available data, the classification criteria are not met.
**Reproductive toxicity**: No - Based on available data, the classification criteria are not met.
**Reproductive toxicity, Effects on or via lactation**: No - Based on available data, the classification criteria are not met.
**Specific target organ toxicity (Repeated exposure)**: No - Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1 Toxicity
Aquatic toxicity
The mixture has been checked following the conventional method for eco-toxicological properties. If classified as eco-toxic see section 2 for details.
12.2 Persistence and degradability
No information available.
12.3 Bioaccumulative potential
No information available.
12.4 Mobility in soil
No information available.
12.5 Results of PBT and vPvB assessment
Contains no PBT / vBvP-substance.
12.6 Other adverse effects
No information available.
12.7 Additional ecotoxicological information
Do not allow uncontrolled discharge of product into the environment.
SECTION 13: Disposal considerations

13.1 Waste treatment methods
Product/Packaging disposal
Uncured product: Special waste.
Cured product: household garbage or trade garbage - observe local regulations.
Waste codes/waste designations according to EWC/AVV
08 04 10: Waste adhesives and sealants other than those mentioned in 08 04 09.
Waste treatment options
Appropriate disposal / Package
Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.
13.2 Additional information
Please note: The classification of waste for this product may change according to the field of its application. Please observe Directive 2001/118/EC.

SECTION 14: Transport information

14.1 UN number
No dangerous goods in sense of this transport regulation.
14.2 UN proper shipping name
No dangerous goods in sense of this transport regulation.
14.3 Transport hazard class(es)
No dangerous goods in sense of this transport regulation.
14.4 Packing group
No dangerous goods in sense of this transport regulation.
14.5 Environmental hazards
No dangerous goods in sense of this transport regulation.
14.6 Special precautions for user
None
14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code
No information available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
National regulations
Observe in addition any national regulations!
Restrictions of occupation
Please consider possible restrictions of occupation after maternity protection guideline regulation or law for the protection of young workers.
Technische Anleitung Luft (TA-Luft)
Weight fraction (Number 5.2.5. I) : < 1 %
Water hazard class (WGK)
Class : 1 (Slightly hazardous to water) Classification according to VwVwS
Other regulations, restrictions and prohibition regulations
Betriebssicherheitsverordnung (BetrSichV)
No flammable liquid according to BetrSichV.
15.2 Chemical Safety Assessment
No information available.

(Contd. on page 7)
SECTION 16: Other information

16.1 Indication of changes
02. Label elements • 02. Labelling according to Regulation (EC) No. 1272/2008 [CLP] • 03. Hazardous ingredients

16.2 Abbreviations and acronyms
BCF - Bioconcentration Factor
CMR - Carcinogenic-Mutagenic-toxic for Reproduction
DNEL - Derived No Effect Level
EWC - European Waste Catalogue
NOEC - No Observed Effect Concentration
NOEL - No Observed Effect Level
OEL - Occupational Exposure Limit
PBT - Persistent, Bioaccumulative, Toxic
PNEC - Predicted No Effect Concentration
STOT - Specific Target Organ Toxicity
SVHC - Substance of Very High Concern
vPvB - very Persistent, very Bioaccumulative

16.3 Key literature references and sources for data
Regulations for prevention of accidents, safety rules and recommendations provided by professional associations.
Observe technical data sheet.

16.4 Relevant H- and EUH-phrases (Number and full text)
H226 Flammable liquid and vapour.
H332 Harmful if inhaled.

16.5 Training advice
None

16.6 Additional information
None

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.