# SAFETY DATA SHEET



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

Identification of the

substance/preparation

**VOLSEAL® CONNECT ADHESIVE** 

Version No. 01

**Revision date** 09-May-2010 CAS# Mixture

**CETCO EUROPE** Company

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### 2. HAZARDS IDENTIFICATION

This preparation is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification Xi, Xn, R20, R36/37/38, R42/43 **Physical hazards** Not classified as a physical hazard.

Harmful by inhalation. Irritating to eyes, respiratory system and skin. May cause sensitization by **Health hazards** 

inhalation and skin contact.

**Environmental hazards** Not classified as an environmental hazard.

Specific hazards May cause sensitisation by inhalation and skin contact. Certain pre-existing conditions may make

workers particularly susceptible to the effects of this chemical: asthma, allergies, impaired pulmonary function. Persons allergic to isocvanates, and particularly those suffering from asthma

or other respiratory conditions, should not work with isocyanates.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Components                               | CAS#      | Percent | EC-No. | Classification |  |
|--|-----------|---------|--------|----------------|--|
| POLYMETHYLENE POLYPHENYLENE ISOCYANATE   | 9016-87-9 | 60 - 80 |        | R14            |  |
| Other components below reportable levels |           | 20 - 40 |        |                |  |

**Composition comments** For the full text of the R phrases mentioned in this Section, see Section 15.

### 4. FIRST-AID MEASURES

**Inhalation** If inhalation of gas/fume/vapour/dust/mist from the material is excessive (air concentration is

greater than the TLV or health effects are noticed), immediately remove the affected person(s) to fresh air. Get medical attention immediately. Keep victim warm. If the affected person is not breathing, apply artificial respiration. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way

valve or other proper respiratory medical device.

Skin contact Wash affected area with mild soap and water. Remove and isolate contaminated clothing and

shoes. Launder contaminated clothing before reuse. Get medical attention if irritation develops or

persists.

**Eye contact** Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical

attention if irritation develops or persists.

Ingestion If swallowed, seek medical advice immediately and show this container or label. Have victim rinse

mouth thoroughly with water. If swallowed, do NOT induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Aspiration may cause pulmonary oedema and

pneumonitis.

**General advice** If you feel unwell, seek medical advice (show the label where possible). Symptoms of poisoning

may only appear several hours later. Keep victim under observation.

Provide general supportive measures and treat symptomatically. Symptoms may be delayed. Keep Notes to physician

under medical supervision for at least 48 hours.

# 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media Dry chemical, foam, carbon dioxide.

Material name: VOLSEAL® CONNECT ADHESIVE 5692 Version No.: 01 Revision date: 09-May-2010 Print Date: 09-May-2010 **Unusual fire & explosion** 

hazards

Container may explode in heat of fire.

**Special protective equipment** 

for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved

or equivalent) and full protective gear.

Fire fighting

equipment/instructions

Containers can build up pressure if exposed to heat (fire). Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. Move containers from

fire area if you can do it without risk.

Hazardous combustion

products

Irritating and toxic gases or fumes may be released during a fire.

### **6. ACCIDENTAL RELEASE MEASURES**

**Containment procedures** Stop leak if you can do so without risk. Dike the spilled material, where this is possible. Prevent

entry into waterways, sewers, basements or confined areas.

**Personal precautions** Ensure adequate ventilation. Do not touch or walk through spilled material. Do not touch damaged

containers or spilled material unless wearing appropriate protective clothing.

**Environmental precautions** Do not flush into surface water or sanitary sewer system. Do not contaminate water. Runoff from

fire control or dilution water may cause pollution.

**Methods for cleaning up** Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container.

Ventilate the contaminated area. Clean contaminated surface thoroughly. After removal flush contaminated area thoroughly with water. Wear appropriate protective equipment and clothing

during clean-up.

#### 7. HANDLING AND STORAGE

**Handling** Use this product with adequate ventilation. Keep this product from heat, sparks, or open flame.

When using do not eat or drink.

**Storage** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep at temperatures

between 10 and 48°C. Never allow product to get in contact with water during storage. Purge open drums with nitrogen before resealing. Keep out of the reach of children. Keep this material

away from food, drink and animal feed.

**Further information** Keep containers dry and tightly closed to avoid moisture absorption and contamination.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering measures**Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne

levels below recommended exposure limits.

**Personal protective equipment** 

**Respiratory protection** If ventilation is not sufficient to effectively prevent buildup of aerosols or vapors, appropriate

NIOSH/MSHA respiratory protection must be provided. Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection.

**Hand protection** Protective gloves.

**Eye protection** Wear safety glasses with side shields (or goggles) and a face shield.

**Skin and body protection** Where contact is likely, wear chemical-resistant gloves, a chemical suit, rubber boots, and

chemical safety goggles plus a face shield. Recommended gloves include rubber, neoprene, nitrile

or viton.

**General** Repeated exposure may lead to respiratory sensitisation reactions, producing an asthma-like

condition.

**Hygiene measures** When using, do not eat, drink or smoke. Avoid contact with skin. Avoid contact with eyes. Keep

away from food and drink. Avoid contact with the skin and the eyes. Handle in accordance with good industrial hygiene and safety practices. When using do not smoke. When using do not eat or

drink.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** Not available.

Physical stateLiquid.FormLiquid.ColorDark brown.OdorMusty.

Odor threshold Not available.
pH Not available.

**Boiling point**  $> 300 \, ^{\circ}\text{C} \, (> 572 \, ^{\circ}\text{F})$ 

Flash point > 200 °C (> 392 °F) Tag closed cup

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**Flammability** Not available. Flammability limits in air, Not available.

upper, % by volume

Flammability limits in air, lower, % by volume

Not available.

0 hPa estimated Vapor pressure 1.1 - 1.3 g/cm3 Relative density Solubility (water) Not available. **Partition coefficient** Not available.

(n-octanol/water)

70 - 100 mPa·s @ 25 C **Viscosity** 

Vapor density 8 5

Not available. **Evaporation rate** Not available. **Melting point** Freezing point Not available.

**Auto-ignition temperature** > 400 °C (> 752 °F) Specific gravity 1.1 - 1.3 @ 20 C

### 10. STABILITY AND REACTIVITY

Chemical stability Stable at normal conditions.

**Conditions to avoid** Keep away from water. Exposure to moisture. Direct sources of heat. **Incompatible materials** Water. Acids. Alcohols Amides. Amines. Ammonia. Caustics. Glycol.

**Hazardous decomposition** 

products

Nitrogen oxides (NOx). Carbon monoxide.

**Possibility of hazardous** 

reactions

Hazardous polymerisation can occur with elevated temperatures.

# 11. TOXICOLOGICAL INFORMATION

# **Toxicological data**

**Product Test results** VOLSEAL® CONNECT ADHESIVE (Mixture) Acute Dermal LD50 Rabbit: 11750 mg/kg estimated

Acute Inhalation LC50 Rat: 613 mg/l/4h estimated

Sensitisation May cause sensitisation by inhalation and skin contact.

# 12. ECOLOGICAL INFORMATION

**Ecotoxicity** Components of this product have been identified as having potential environmental concerns.

**Environmental effects** Based on the physical properties of this product, significant environmental persistence and

bioaccumulation can be expected. Harmful to aquatic life.

**Aquatic toxicity** May cause long-term adverse effects in the aquatic environment.

### 13. DISPOSAL CONSIDERATIONS

**Disposal instructions** Dispose in accordance with all applicable regulations. Dispose of this material and its container to

hazardous or special waste collection point. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container.

# 14. TRANSPORT INFORMATION

#### **ADR**

Not regulated as dangerous goods.

**IATA** 

Not regulated as hazardous goods.

**IMDG** 

Not regulated as dangerous goods.

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<sup>\*</sup> Estimates for product may be based on additional component data not shown.

### 15. REGULATORY INFORMATION

#### Labeling

Symbol(s)



Harmfu

**R-phrase(s)** R20 Harmful by inhalation.

R36/37/38 Irritating to eyes, respiratory system and skin. R42/43 May cause sensitization by inhalation and skin contact.

**S-phrase(s)** S1/2 Keep locked up and out of the reach of children.

S13 Keep away from food, drink and animal feeding stuffs.

S23 Do not breathe fumes, vapour. S24/25 Avoid contact with skin and eyes.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37 Wear suitable protective clothing and gloves.

S45 In case of accident or if you feel unwell, seek medical advice immediately (show label where

ossible).

S60 This material and its container must be disposed of as hazardous waste. S63 In case of accident by inhalation: remove casualty to fresh air and keep at rest.

S64 If swallowed, rinse mouth with water (only if the person is conscious).

**Inventory status** 

Country(s) or regionInventory nameOn inventory (yes/no)\*EuropeEuropean Inventory of New and Existing Chemicals (EINECS)NoEuropeEuropean List of Notified Chemical Substances (ELINCS)No

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

### 16. OTHER INFORMATION

**Further information** This safety datasheet only contains information relating to safety and does not replace any product

information or product specification.

**List of relevant R phrases** R20 Harmful by inhalation.

R36/37/38 Irritating to eyes, respiratory system and skin.

R42/43 May cause sensitization by inhalation and skin contact.

**Disclaimer** 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 manufacturer expressly does not make any representations, warranties, or guarantees as to its accuracy, reliability or completeness nor assumes any liability, for its use. It is the user's responsibility to verify the suitability and

completeness of such information for each particular use.

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text.

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**Other information** CETCO is an AMCOL International company.

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