Safety Data Sheet

according to Regulation (EC) No 1907/2006

673 Universal Coating

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

1.1. Product identifier

Product group: 673 Universal Coating for non-absorbent surfaces

Abbreviation: -

REACH Registration Number: -

CAS No: -

Index No: -

EC No: -

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

Use of the substance/mixture: COATING MATERIAL, EASY-TO-CLEAN

1.3. Details of the supplier of the safety data sheet

Company name: CCM GmbH
Street: Diepenbroich 8
Place: D-51491 Overath
Telephone: +49 (0) 2206 938590-0

Contact person: Bernd Zimmermann
Telephone: 0049 (0) 2206 938590-10

Internet: www.ccm-international.eu

1.4. Emergency telephone number:

Poisson Control Center Mainz, phone +49 (0) 6131 19240

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Directive 67/548/EEC or 1999/45/EC

Indications of danger: F - Highly flammable, Xi - Irritant

R phrases:
Highly flammable.
Irritating to eyes.

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazard categories:
Flammable liquid: Flam. Liq. 2
Serious eye damage/eye irritation: Eye Irrit. 2

Hazard Statements:
Highly flammable liquid and vapour.
Causes serious eye irritation.

2.2. Label elements

Signal word: Danger

Pictograms: GHS02-GHS07
Hazard statements
- H225: Highly flammable liquid and vapour.
- H319: Causes serious eye irritation.

Precautionary statements
- P337+P313: If eye irritation persists: Get medical advice/attention.
- P201: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P233: Ground/bond container and receiving equipment.
- P240: Use explosion-proof electrical/ventilating/lighting equipment.
- P241: Use only non-sparking tools.
- P242: Take precautionary measures against static discharge.
- P243: Wear protective gloves/protective clothing/eye protection/face protection.
- P280: IF ON SKIN (or hair): Take off immediately all contaminated clothing.
- P303+P353: Store in a well-ventilated place. Keep cool.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization
- Polymer, made of silanes with EINECS registration as well as its hydrolysates and condensates

<table>
<thead>
<tr>
<th>ECNo</th>
<th>Chemicalname</th>
<th>Quantity</th>
</tr>
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<tbody>
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<tr>
<td>IndexNo</td>
<td>Classificationaccordingto Regulation(EC) No.1272/2008[CLP]</td>
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<td>200-659-6</td>
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<td>&lt;0,2%</td>
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<td>603-001-00-X</td>
<td>Flam.Liq.2,AcuteTox.3,AcuteTox.3,AcuteTox.3,STOTSE1;H225H331H311</td>
<td></td>
</tr>
<tr>
<td></td>
<td>H301H370**</td>
<td></td>
</tr>
</tbody>
</table>

Full text of R-, H- and EUH-phrases: see section 16.

Further Information
- The components in this formulation do not meet the criteria for classification as PBT or vPvB.

SECTION 4: First aid measures
4.1. Description of first aid measures

General information
Take off immediately all contaminated clothing. Move victim to fresh air. Instruct person to keep calm and warm. If victim is at risk of losing consciousness, position and transport on their side.

After inhalation
Provide fresh air. Consult physician if problems persist.

After contact with skin
Take off immediately all contaminated clothing. After contact with skin, wash immediately with: Water and soap.

After contact with eyes
If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.

After ingestion
Consult physician. Make affected person vomit if conscious.

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

Slightly hazardous in case of skin contact (sensitizer).
CANCINOGENIC EFFECTS: A4 (Not classifiable for human or animal) by ACGIH
MUTAGENIC EFFECTS: Mutagenic for mammalian somatic cells. Mutagenic for bacteria and/or yeast.
TERATOGENIC EFFECTS: Classified PROVEN for human.
DEVELOPMENTAL TOXICITY: Classified Development toxon [PROVEN]. Classified reproductive system/toxin/female, reproductive system/toxin/male [POSSIBLE]
The substance is toxic to blood, the reproductive system, liver, upper respiratory tract, skin, central nervous system (CNS). Repeated or prolonged exposure to the substance can produce target organs damage.

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

Nature of Hazard: Milk or fat oils and are strongly contraindicated. Caution if victim vomits: Risk of aspiration!
Treatment: Following swallowing of paraffin-oil carry out stomach pumping with animal charcoal addition agent.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media
Atomized water. alcohol resistant foam. dry extinguishing powder. Carbon dioxide (CO2).

Unsuitable extinguishing media
High power water jet.

5.2. Special hazards arising from the substance or mixture

Can be released in case of fire: Carbon monoxide.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Full protective suit.

Additional information
Use water spray/stream to protect personnel and to cool endangered containers. Vapours are heavier than air and will spread at floor level. In case of fire and/or explosion do not breathe fumes.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.2. Environmental precautions
Do not empty into drains or the aquatic environment. In case of gas being released or leakage into waters, ground or the drainage system, the appropriate authorities must be informed. Ventilate affected area. Water (with cleaning agent).

6.3. Methods and material for containment and cleaning up
Clean contaminated articles and floor according to the environmental legislation. Suitable absorbing material: Universal binding agent. Clean with detergents. Avoid solvent cleaners. Ventilate affected area.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling
If suction of the immediate vicinity is impossible or insufficient, the entire working place must be sufficiently ventilated using appropriate machines. Handle and open container with care. It is recommended to organize all working processes in order to exclude the following: inhalation, skin contact, Eye contact.

Advice on protection against fire and explosion
Concentrated vapours are heavier than air. Vapours may form explosive mixtures with air. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.

Further information on handling
Keep in a cool, well-ventilated place.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels
Keep container tightly closed in a cool, well-ventilated place. Ensure the grounding of containers, apparatus, pumps and suction equipment.

Advice on storage compatibility
No data available

Further information on storage conditions
storage temperature: 15° C - 30° C

7.3. Specific end use(s)
No data available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

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<th>fibres/ml</th>
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<th>Origin</th>
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<td>TWA(8h)</td>
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<td>---------------</td>
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<td>8mg/kgbw/day</td>
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### PNEC values

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<td>Microorganisms in sewagetreatment plants (STP)</td>
<td>100mg/l</td>
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### Additional advice on limit values

No data available

### 8.2. Exposure controls

#### Appropriate engineering controls

If technical suction or ventilation measures are not possible or are insufficient, protective breathing apparatus must be worn. In the immediate working surroundings there must be: Emergency spray installed, provide eye wash and label its location conspicuously.

#### Protective and hygiene measures

It is recommended to organize all working processes in order to exclude the following: inhalation. skin contact. Eye contact. After work, wash hands and face.

#### Eye/face protection

Tightly sealed safety glasses.

#### Hand protection

Protect skin by using skin protective cream. Tested protective gloves are to be worn: Suitable material: NBR (Nitrile rubber), Butyl rubber, FKM (fluororubber).

#### Skin protection

Lab apron.

#### Respiratory protection

Wear respiratory protection when in the presence of vapour, dust, and aerosols. Filter respirator (full mask or mouth-piece) with filter: Manufacturer. 3M Art. Nr. 6800S (special filter for organic and inorganic gases and aerosols, 3M Art. Nr. ABEK1, particle filter for fine dust or dangerous aerosols 3M P3 Art. Nr. 5935)

#### Environmental exposure controls

Refer to Chap. 5 and 6
SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: liquid
Colour: colourless - pink
Odour: alcoholic

Test method

pH-Value (at 20 ° C):

Changes in the physical state

Melting point: No data available
Initial boiling point and boiling range: No data available
Flash point: 14 ° C ISO 3679
Lower explosion limits: No data available
Upper explosion limits: No data available
Ignition temperature: No data available
Vapour pressure: No data available
Density (at 20 ° C): 0,8 g/cm³ DIN 12791
Water solubility: miscible.
Viscosity / dynamic:
(at 20 ° C): 3 - 5 mPa·s ISO 2555
Flow time:
(at 20 ° C): 18 - 24 s (3 mm) 3 DIN 53211

9.2. Other information

Solid content: 0,5 - 1,5%

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

stable at room temperature

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

Keep only in the original container at temperature not exceeding 30 ° C.

10.5. Incompatible materials

Oxidizing agents. Alkalis (alkalis).

10.6. Hazardous decomposition products

No risks worthy of mention.

Further information

Caused by purity of used ethanol, it is possible that the product turns paly pink, but there's no negative effect in using it.

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Safety Data Sheet

according to Regulation (EC) No 1907/2006

673 Universal Coating

Print date: 11.05.2015

SECTION 1: Identification

Identification

Name of the substance or mixture

67-56-1 methanol

CAS No

112-11-3

Chemical name

methanol

Exposure routes

oral

dermal

Method and dose

LD50 5628 mg/kg, 96h, Ratte

IUCID

Dermal exposure routes

LD50 17100 mg/kg, 96h, Kaninchen

IUCID

Inhalative exposure routes

LC50 85,26 mg/l, 96h, Ratte

IUCID

Inhalative aerosol exposure routes

ATE0,5 mg/l

IUCID

Aquatic toxicity

Acutefishtoxicity

LC50 >10000 mg/l, 96h, Lepomis macrochirus

IUCID

Acutealgaetoxicity

ErC50 >10000 mg/l, 96h, Pseudokirchneriella subcapitata

IUCID

Acuteecrustaceatoxicity

EC50 >10000 mg/l, 48h, Daphniamagna

IUCID

Toxicokinetics, metabolism and distribution

No data available

Acute toxicity

No data available

Irritation and corrosivity

No data available

Sensitising effects

No data available

Severe effects after repeated or prolonged exposure

No data available

Carcinogenic/mutagenic/toxic effects for reproduction

No data available

Specific effects in experiment on an animal

No data available

Additional information on tests

No data available

Practical experience

Inhalation causes narcotic effects/intoxication.

Other observations

No data available

Further information

See protective measures under point 7 and 8.

SECTION 12: Ecological information

12.1. Toxicity

No data available

Aquatic toxicity

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<thead>
<tr>
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</table>

12.2. Persistence and degradability

No data available

Acuteecrustaceatoxicity

EC50 >10000 mg/l, 48h, Daphniamagna

GB - EN

Revision No: 1.01

Revision date: 25.06.2014
12.3. Bioaccumulative potential

No data available

Partition coefficient n-octanol/water

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<tr>
<th>CASNo</th>
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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

Further information

Preparation not tested. The information about ecology refer to the main components.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal number of waste from residues/unused products

080111  WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; waste paint and varnish containing organic solvents or other dangerous substances

Classified as hazardous waste.

Waste disposal number of used product

080111  WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; waste paint and varnish containing organic solvents or other dangerous substances

Classified as hazardous waste.

Waste disposal number of contaminated packaging

150110  WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by dangerous substances

Classified as hazardous waste.

Contaminated packaging

Completely emptied packings can be re-cycled.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number:  UN 1170

14.2. UN proper shipping name:  ETHANOL (ETHYL ALCOHOL)
14.1. **UN number:**

**UN 1170**

14.2. **UN proper shipping name:**

ETHANOL (ETHYL ALCOHOL)

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

3

14.4. **Packing group:**

II

14.5. **Hazard label:**

3

### Other applicable information (land transport)

E2

**Inland waterways transport (ADN)**

- **Classification code:** F1
- **Special Provisions:** 144 601
- **Limited quantity:** 1L
- **Transport category:** 2
- **Hazard No:** 33
- **Tunnel restriction code:** D/E

### Other applicable information (inland waterways transport)

E2

**Marine transport (IMDG)**

- **UN number:** UN 1170
- **UN proper shipping name:** ETHANOL (ETHYL ALCOHOL)
- **Transport hazard class(es):** 3
- **Packing group:** II
- **Hazard label:** 3

- **Special Provisions:** 144
- **Limited quantity:** 1L
- **EmS:** F-E, S-D

### Other applicable information (marine transport)

E2

**Air transport (ICAO)**

- **UN number:** UN 1170
- **UN proper shipping name:** ETHANOL (ETHYL ALCOHOL)
- **Transport hazard class(es):** 3
Safety Data Sheet

according to Regulation (EC) No 1907/2006

673 Universal Coating

Print date: 11.05.2015

14.4. Packing group: II
Hazard label: 3

Special Provisions:
Limited quantity Passenger: A3 A58 A180
IATA-packing instructions - Passenger: 353
IATA-max. quantity - Passenger: 5L
IATA-packing instructions - Cargo: 364
IATA-max. quantity - Cargo: 60 L

Other applicable information (air transport)
E2 : Y341

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

SECTION 15: Regulatory information

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

EU regulatory information
2004/42/EC (VOC): > 98% (berechnet)

National regulatory information
Employment restrictions: Observe employment restrictions for young people. Observe employment restrictions for child bearing mothers and nursing.
Water contaminating class (D): 1 - slightly water contaminating

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Changes
This data sheet contains changes from the previous version in section(s): 1,2,3,7,8,9,10,11,12,14,15.

Abbreviations and acronyms
www.wikipedia.com

Relevant R-phrases (Number and full text)
11 Highly flammable.
23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

Relevant H- and EUH-phrases (Number and full text)
H225 Highly flammable liquid and vapour.
H301 Toxic if swallowed.
H311 Toxic in contact with skin.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.
H370 Causes damage to organs.

Further Information
The information contained herein is based on the present state of our knowledge. It characterizes the product/composition with regard to the appropriate safety precautions. It does not represent a
guarantee of the properties of the product. Any liability for damages, which occur in case of improper use or contact with the product/composition is excluded.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)