HTC Stain Protection

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

1.1. Product identifier

Trade name/designation:

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

Use of the substance/mixture:

Impregnating agent

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

HTC Sweden AB
P.O Box 69
614 22 Söderköping
Sweden
Telephone: +46(0)121/294-00
Telefax: +46(0)121/152-12
E-mail: info@htc-sweden.com
Website: www.htc-floorsystems.com
E-mail (competent person): charlotte.uhrbom@htc.se

1.4. Emergency telephone number

24h: +49(0)89-19240

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
flammable liquids *(Flam. Liq. 2)*	H225: Highly flammable liquid and vapour.	
Serious eye damage/eye irritation *(Eye Irrit. 2)*	H319: Causes serious eye irritation.	

2.2. Label elements

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

Hazard pictograms:

GHS02
Flame

GHS07
Exclamation mark

Signal word: Danger

Hazard components for labelling:

toluene; methanol; trimethoxy(methyl)silane

hazard statements for physical hazards	
H225	Highly flammable liquid and vapour.

hazard statements for health hazards	
H319	Causes serious eye irritation.

Supplemental Hazard information (EU): -

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Precautionary statements Prevention	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statements Response	
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.3. Other hazards

Adverse physicochemical effects:

Vapours are heavier than air, spread along floors and form explosive mixtures with air.

Adverse human health effects and symptoms:

Protect from moisture. Formation of: Methanol. Danger of serious damage to health by prolonged exposure.

Adverse environmental effects:

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No. 1272/2008 [CLP]	Concentration
CAS No.: 64-17-5 **EC No.:** 200-578-6 **REACH No.:** 01-2119457610-43-XXXX	**ethanol** Flam. Liq. 2, Eye Irrit. 2 **Danger** H225-H319	< 70 Wt %
CAS No.: 1185-55-3 **EC No.:** 214-685-0	**trimethoxy(methyl)silane** Flam. Liq. 2, Acute Tox. 4 **Danger** H225-H302	< 10 Wt %
CAS No.: 2943-75-1 **EC No.:** 220-941-2 **REACH No.:** 01-2119972313-39-0001	**triethoxyoctylsilane** Skin Irrit. 2 **Warning** H315	< 5 Wt %
CAS No.: 108-88-3 **EC No.:** 203-625-9	**toluene** Repr. 2, STOT SE 3, Flam. Liq. 2, Skin Irrit. 2, STOT RE 2, Asp. Tox. 1 **Danger** H225-H304-H315-H336-H361d-H373	< 1 Wt %
CAS No.: 67-56-1 **EC No.:** 200-659-6	**methanol** Flam. Liq. 2, Acute Tox. 3, STOT SE 1 **Danger** H225-H301-H311-H331-H370	< 1 Wt %

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious place in recovery position and seek medical advice. Do not leave affected person unattended. First aider: Pay attention to self-protection!

Following inhalation:

Provide fresh air. In case of respiratory tract irritation, consult a physician.

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In case of skin contact:
After contact with skin, wash immediately with plenty of water and soap. If skin irritation or rash occurs: Get medical advice/attention.

After eye contact:
After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

After ingestion:
If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

Self-protection of the first aider:
Use personal protection equipment.

4.2. Most important symptoms and effects, both acute and delayed
Serious eye damage/eye irritation

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

SECTION 5: Firefighting measures

5.1. Extinguishing media
Suitable extinguishing media:
Foam, Extinguishing powder, Carbon dioxide (CO2), Water spray

Unsuitable extinguishing media:
Full water jet

5.2. Special hazards arising from the substance or mixture
Vapours are heavier than air, spread along floors and form explosive mixtures with air.
Pyrolysis products, toxic

Hazardous combustion products:
Nitrogen oxides (NOx), Carbon dioxide (CO2), Carbon monoxide.

5.3. Advice for firefighters
Wear a self-contained breathing apparatus and chemical protective clothing.

5.4. Additional information
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Dispose of waste according to applicable legislation.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
6.1.1. For non-emergency personnel
Personal precautions:
Remove persons to safety. Special danger of slipping by leaking/spilling product. Provide adequate ventilation. Remove all sources of ignition.

Protective equipment:
Wear protective gloves/protective clothing/eye protection/face protection.

6.1.2. For emergency responders
Personal protection equipment:
Personal protection equipment: see section 8

6.2. Environmental precautions
Prevent spread over a wide area (e.g. by containment or oil barriers). Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up
For containment:
Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

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For cleaning up:
Wipe up with absorbent material (eg. cloth, fleece). The contaminated area should be cleaned up immediately with: Solvent

Other information:
Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections
Safe handling: see section 7. Personal protection equipment: see section 8. Disposal: see section 13.

6.5. Additional information
Use appropriate container to avoid environmental contamination.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:
Wear personal protection equipment (refer to section 8). Provide adequate ventilation. Vapours are heavier than air, spread along floors and form explosive mixtures with air.

Fire prevent measures:
Usual measures for fire prevention. Keep away from sources of ignition. - No smoking. Take precautionary measures against static discharge.

Measures to prevent aerosol and dust generation:
Use only in well-ventilated areas.

Environmental precautions:
Do not allow to enter into surface water or drains.

Advices on general occupational hygiene
Wash hands before breaks and after work. Use protective skin cream before handling the product. When using do not eat, drink or smoke. Avoid contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:
Keep container tightly closed in a cool, well-ventilated place.

Packaging materials:
Keep/Store only in original container.

Requirements for storage rooms and vessels:
The floor should be leak tight, jointless and not absorbent.

Hints on storage assembly:
Do not store together with: Food and feedingstuffs, Oxidising agent

Storage class: 3 – Flammable liquids

Further information on storage conditions:
Protect containers against damage. Keep away from heat.

7.3. Specific end use(s)

Recommendation:
Observe technical data sheet.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① long-term occupational exposure limit value ② short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ remark
WEL (GB)	ethanol CAS No.: 64-17-5	① 1,000 ppm (1,920 mg/m³)
WEL (GB)	toluene CAS No.: 108-88-3	① 50 ppm (191 mg/m³) ② 100 ppm (384 mg/m³)
IOELV (EU)	toluene CAS No.: 108-88-3	① 50 ppm (192 mg/m³) ② 100 ppm (384 mg/m³) ⑤ (May be absorbed through the skin.)
WEL (GB)	methanol CAS No.: 67-56-1	① 200 ppm (266 mg/m³) ② 250 ppm (333 mg/m³)
IOELV (EU)	methanol CAS No.: 67-56-1	① 200 ppm (260 mg/m³) ⑤ (May be absorbed through the skin.)

8.1.2. biological limit values

No data available

8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
ethanol CAS No.: 64-17-5	1,900 mg/m³	① DNEL worker ② DNEL acute inhalative (local)
ethanol CAS No.: 64-17-5	950 mg/m³	① DNEL Consumer ② DNEL acute inhalative (local)
ethanol CAS No.: 64-17-5	950 mg/m³	① DNEL worker ② DNEL long-term inhalative (systemic)
ethanol CAS No.: 64-17-5	114 mg/m³	① DNEL Consumer ② DNEL long-term inhalative (systemic)
ethanol CAS No.: 64-17-5	343 mg/kg bw/day	① DNEL worker ② DNEL long-term dermal (systemic)
ethanol CAS No.: 64-17-5	206 mg/kg bw/day	① DNEL Consumer ② DNEL long-term dermal (systemic)
ethanol CAS No.: 64-17-5	87 mg/kg bw/day	① DNEL Consumer ② DNEL long-term oral (repeated)

Substance name	PNEC Value	① PNEC type
ethanol CAS No.: 64-17-5	0.96 mg/l	① PNEC aquatic, freshwater
ethanol CAS No.: 64-17-5	0.79 mg/l	① PNEC aquatic, marine water
ethanol CAS No.: 64-17-5	3.6 mg/kg	① PNEC sediment, freshwater
ethanol CAS No.: 64-17-5	2.9 mg/kg	① PNEC sediment, marine water
ethanol CAS No.: 64-17-5	2.75 mg/l	① PNEC air

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Substance name	PNEC Value	① PNEC type
ethanol CAS No.: 64-17-5	0.63 mg/kg	① PNEC soil, freshwater
ethanol CAS No.: 64-17-5	0.72 mg/kg	① PNEC Secondary Poisoning
ethanol CAS No.: 64-17-5	580 mg/l	① PNEC sewage treatment plant (STP)

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Technical measures to prevent exposure

8.2.2. Personal protection equipment

Eye/face protection:

Eye glasses with side protection

Skin protection:

Tested protective gloves must be worn DIN EN 374. Suitable material: Butyl caoutchouc (butyl rubber). Breakthrough time (maximum wearing time) > 480 min. In the case of wanting to use the gloves again, clean them before taking off and air them well. Breakthrough times and swelling properties of the material must be taken into consideration.

Respiratory protection:

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Respiratory protection necessary at: aerosol or mist formation. Filtering device (full mask or mouthpiece) with filter: A-P2

Other protection measures:

Do not breathe vapour/aerosol. Avoid contact with skin and eyes. Wear suitable protective clothing and gloves.

8.2.3. Environmental exposure controls

See section 7. No additional measures necessary.

8.3. Additional information

No data available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: liquid
Colour: farblos
Odour: characteristic

Safety relevant basis data

parameter		at °C	Method	remark
pH	*not determined*			
Melting point/freezing point	*not determined*			
Freezing point	*not determined*			
Initial boiling point and boiling range	≈ 75 °C			
Decomposition temperature (°C):	*not determined*			
Flash point	12 °C		DIN EN ISO 2719	
Evaporation rate	*not determined*			
Ignition temperature in °C	≈ 425 °C			
Upper/lower flammability or explosive limits	3.5 – 15 Vol-%			Ethanol
Vapour pressure	*not determined*			
Vapour density	*not determined*			
Density	0.88 g/cm³	20 °C	ISO 2811, part 1	
Bulk density	*not determined*			

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parameter		at °C	Method	remark
Water solubility (g/L)	partially miscible			
Partition coefficient: n-octanol/ water	*not determined*			
Dynamic viscosity	*not determined*			
Kinematic viscosity	*not determined*	40 °C		

9.2. Other information
No data available

SECTION 10: Stability and reactivity

10.1. Reactivity
No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability
The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions
Exothermic reaction with: Oxidising agent. In use, may form flammable/explosive vapour-air mixture.

10.4. Conditions to avoid
See section 7. No additional measures necessary.

10.5. Incompatible materials
Materials to avoid: Oxidising agent

10.6. Hazardous decomposition products
Gases/vapours, flammable; Formation of: Methanol

SECTION 11: Toxicological information

11.1. Information on toxicological effects

CAS No.	Substance name	Toxicological information
64-17-5	ethanol	**LD_{50} oral:** >2,000 mg/kg (Rat) OECD 401 **LC_{50} inhalative:** >20 mg/l (Rat) **LD_{50} dermal:** >2,000 mg/kg (Rabbit) OECD 402
1185-55-3	trimethoxy(methyl)silane	**LD_{50} oral:** >11,685 mg/kg (Rat) **LD_{50} dermal:** >9,500 mg/kg (Rat) **LC_{50} inhalative:** >42.1 mg/l (Rat)
2943-75-1	triethoxyoctylsilane	**LD_{50} oral:** >5,110 mg/kg (Rat) OECD 401 **LC_{50} inhalative:** 22 mg/l 4 h (Rat) OECD 403 **LD_{50} dermal:** 6,730 mg/kg (Rabbit) OECD 402

Acute oral toxicity:
not determined

Acute dermal toxicity:
not determined

Acute inhalation toxicity:
not determined

Skin corrosion/irritation:
not determined

Eye damage/irritation:
Causes serious eye irritation.

Respiratory or skin sensitisation:
not determined

Germ cell mutagenicity:
not determined

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Carcinogenicity:
not determined

Reproductive toxicity:
not determined

STOT-single exposure:
not determined

STOT-repeated exposure:
not determined

Aspiration hazard:
not determined

Additional information:
The evaluation was carried out according to the calculation method of the preparation directive.
Toxicological data are not available.

SECTION 12: Ecological information

12.1. Toxicity

CAS No.	Substance name	Toxicological information
64-17-5	ethanol	**LC_{50}:** 15,300 mg/l 4 d (Pimephales promelas (fathead minnow)) **LC_{50}:** 11,200 mg/l (Salmo gairdneri) **EC_{50}:** 858 mg/l (Artemia salina) OECD 202 **EC_{50}:** >10,000 mg/l 2 d (Daphnia magna (Big water flea)) **LC_{50}:** 5,012 mg/l 2 d (Ceriodaphnia dubia) **EC_{50}:** 275 mg/l 3 d (Chlorella vulgaris) OECD 201 **EC_{50}:** 5,800 mg/l (Paramaecium caudatum)
2943-75-1	triethoxyoctylsilane	**EC_{50}:** >1,000 mg/l (Activated sludge) OECD 209 **NOEC:** ≥1,000 mg/l (Activated sludge) OECD 209

12.2. Persistence and degradability

CAS No.	Substance name	Biodegradation	remark
64-17-5	ethanol	Yes, rapidly	
2943-75-1	triethoxyoctylsilane	No	

12.3. Bioaccumulative potential

CAS No.	Substance name	Log K_{OC}	Bioconcentration factor (BCF)
64-17-5	ethanol	-0.3	0.66
2943-75-1	triethoxyoctylsilane	6.41	

Accumulation / Evaluation:
No indication of bioaccumulation potential.

12.4. Mobility in soil
No data available

12.5. Results of PBT and vPvB assessment

CAS No.	Substance name	Results of PBT and vPvB assessment
64-17-5	ethanol	—
1185-55-3	trimethoxy(methyl)silane	—
2943-75-1	triethoxyoctylsilane	—
108-88-3	toluene	—
67-56-1	methanol	—

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

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12.6. Other adverse effects
The evaluation was carried out according to the calculation method of the preparation directive.
Toxicological data are not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

13.1.1. Product/Packaging disposal
Waste codes/waste designations according to EWC/AVV

Waste code product:

08 01 11 *	Waste paint and varnish containing organic solvents or other dangerous substances

*: Evidence for disposal must be provided.

Waste code packaging:

15 01 10	packaging containing residues of or contaminated by dangerous substances

Waste treatment options
Appropriate disposal / Product:
Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal.

Appropriate disposal / Package:
Completely emptied packages can be recycled.

13.2. Additional information
No data available

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN-No.			
1170	1170	1170	1170
14.2. UN proper shipping name			
ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
14.3. Transport hazard class(es)			
3	3	3	3
14.4. Packing group			
II	II	II	II
14.5. Environmental hazards			
No	No	No	No

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Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.6. Special precautions for user			
Special provisions: **Limited quantity (LQ):** 1 l **Hazard identification number (Kemler No.):** 33 **Classification code:** F1 **tunnel restriction code:** D/E **remark:**	**Special provisions:** **Limited quantity (LQ):** 1 l **Classification code:** F1 **remark:**	**Special provisions:** **Limited quantity (LQ):** 1 l **EmS-No.:** F-E; S-D **remark:**	**Special provisions:** **Limited quantity (LQ):** 1 l **remark:**

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
not determined

SECTION 15: Regulatory information

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

15.1.1. EU legislation

Other regulations (EU):

91/689/EEC, 2001/118/EC, 1999/13/EC, 2004/42/EC, (EC) No. 1907/2006, (EC) No. 453/2010, 75/324/EEC, 2008/47/EC, (EC) No. 1272/2008, 2008/68/EC, (EC) No. 648/2004
Information according to 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline).: VOC-value (in g/L): 612
Directive 2004/42/EC on the limitation of emissions of volatile organic compounds:
VOC-value (in g/L): 534
This product meets the requirements of Regulation (EC) No. 1935/2004 on the limitation of VOC content.

15.1.2. National regulations

[GB] National regulations

Other regulations, restrictions and prohibition regulations

SI 2002/1689: CHIP Regulations 2002
SI 2002/2677: COSHH Regulations 2002
SI 1999/3242: Management of Health & Safety at Work Regulations 1999
Health & Safety at Work Act 1974
SI 1993/1643: Environmental Protection Act 1993 & Subsidiary Regulations.
Other national and local measures relating to the workplace, pollution control, environmental protection and waste control.

15.2. Chemical Safety Assessment
not applicable

15.3. Additional information
No data available

SECTION 16: Other information

16.1. Indication of changes
No data available

16.2. Abbreviations and acronyms
See overview table at www.euphrac.eu

16.3. Key literature references and sources for data
No data available

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16.4. Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 [CLP]

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
flammable liquids *(Flam. Liq. 2)*	H225: Highly flammable liquid and vapour.	
Serious eye damage/eye irritation *(Eye Irrit. 2)*	H319: Causes serious eye irritation.	

16.5. Relevant R-, H- and EUH-phrases (Number and full text)

Hazard statements	
H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H370	Causes damage to organs.
H373	May cause damage to organs through prolonged or repeated exposure.

16.6. Training advice

No data available

16.7. Additional information

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.