European Union Safety Data Sheet. According to Regulation (EC) No 1907/2006, Annex II, as amended.

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

1.1. Product identifier

Product name: **CHEMOSIL® 342**

Unique Formula Identifier (UFI): 7WX4-V11H-T00C-W9GA

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

Relevant identified uses: For industrial and professional use only. Elastomer Bonding Agent
Uses advised against: Consumer use

1.3. Details of the supplier of the safety data sheet

Supplier:
Parker Hannifin Manufacturing Germany GmbH & Co. KG
APS / EPM Division
Ottostrasse 28
41836 Huckelhoven Germany
TEL: +49 (0) 2433-5257-0
FAX: +49 (0) 2433-5257-18
Questions concerning the content of the SDS: LORD_EUSDS@parker.com
PLEASE NOTE: This email address is reserved for questions concerning the content and distribution of safety data sheets. Other questions will not be addressed. For general questions please refer to our website or contact your assigned PARKER/LORD sales person.

Manufacturer:
Parker Hannifin Manufacturing Germany GmbH & Co. KG
APS / EPM Division
Ottostrasse 28
41836 Huckelhoven Germany
TEL: +49 (0) 2433-5257-0
FAX: +49 (0) 2433-5257-18

1.4. Emergency telephone number

IRELAND: National Poisons Information Centre: 353 (1) 809 2166 (8.00 a.m.to 10.00 p.m. 7 days a week). Healthcare Professionals: +353 (1)809 2566 (24 hour service)

Revision date: 2026/01/26

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.1. Classification according to regulation (EC) No 1272/2008 (CLP)

Flam. Liq.	2	H225
Acute Tox.	4	H332
Acute Tox.	4	H332
Eye Irrit.	2	H319
Skin Sens.	1	H317
Carc.	2	H351

Product: CHEMOSIL® 342

STOT SE	3	H336
Chronic Aq. Tox.	3	H412

2.1.2. Additional information:

For full text of Hazard- and EU hazard statements: see Section 16.

2.2. Label elements

Labeling according to regulation (EC) No 1272/2008 (CLP)

Symbol(s)

Hazard pictogram

Signal word Danger

Hazard statements

H225	Highly flammable liquid and vapor.
H332	Harmful if inhaled.
H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction.
H351	Suspected of causing cancer.
H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

P210 Keep away from heat, sparks, open flames, hot surfaces. - No smoking.
P243 Take precautionary measures against static discharge.
P280 Wear protective gloves, protective clothing, eye protection, face protection.
P308+P313 IF exposed or concerned: Get medical advice, attention.
P403+P235 Store in a well-ventilated place. Keep cool.

Supplemental label information: EUH066 Repeated exposure may cause skin dryness or cracking.

Contains: 4-methylpentan-2-one; Phenol-formaldehyde polymer; methenamine; Formaldehyde;

2.3. Other hazards

Due to missing data, not all ingredients could be reviewed on PBT and vPvB criteria. To the best of our knowledge this mixture does not contain any substances > 0.1% (w/w) that are assessed to be a PBT or a vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixture

CAS Number EC Number Registration number	Chemical Name	1272/2008/EC	Weight percent range
108-10-1 203-550-1 --	4-methylpentan-2-one	Flam. Liq. 2 H225 Acute Tox. 4 H332 Eye Dam./Irrit. 2 H319 Carc. 2 H351 STOT SE 3 H336	55.0 - 60.0 %

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		EUH066	
No registration number assigned yet due to low volume substance.			
78-93-3 201-159-0 01-2119457290-43-XXXX	butanone	Flam. Liq. 2 H225 Eye Dam./Irrit. 2 H319 STOT SE 3 H336 EUH066	15.0 - 20.0 %
9003-35-4 -- --	Phenol-formaldehyde polymer	Skin Sens. 1 H317	1.0 - 5.0 %
This substance is exempt from REACH registration or registration is not required. [§2(9) REACH]			
1314-13-2 215-222-5 01-2119463881-32-XXXX	zinc oxide	Acute Aq. Tox. 1 H400 Chronic Aq. Tox. 1 H410	1.0 - 2.49 %
M (acute) = 1 M (chronic) = 1			
100-97-0 202-905-8 01-2119474895-20-XXXX	methenamine	Flam. Solid 2 H228 Skin Sens. 1 H317	0.1 - 0.99 %
108-95-2 203-632-7 01-2119471329-32-XXXX	Phenol	Acute Tox. 3 H301 Acute Tox. 3 H311 Acute Tox. 3 H331 Skin Corr/Irrit. 1B H314 Eye Dam./Irrit. 1 H318 Mut. 2 H341 STOT RE 2 H373 Chronic Aq. Tox. 2 H411	0.1 - 0.95 %
C >= 1% Eye Irrit. 2 C >= 3% Skin Corr. 1B C >= 1% Skin Irrit. 2			
108-88-3 203-625-9 --	Toluene	Flam. Liq. 2 H225 Skin Corr/Irrit. 2 H315 Repro. 2 H361d STOT SE 3 H336 STOT RE 2 H373 Asp. Haz. 1 H304 Chronic Aq. Tox. 3 H412	0.1 - 0.95 %
No registration number assigned yet due to low volume substance.			
50-00-0 200-001-8 01-2119488953-20-XXXX	Formaldehyde	Acute Tox. 3 H301 Acute Tox. 3 H311 Acute Tox. 2 H330 Skin Corr/Irrit. 1B H314 Skin Sens. 1A H317 Mut. 2 H341 Carc. 1B H350	0.02 - 0.09 %
C >= 0.2% Skin Sens. 1 C >= 25% Skin Corr. 1B C >= 5% Eye Irrit. 2 C >= 5% Skin Irrit. 2 C >= 5% STOT SE 3			

The full text for all hazard statements are displayed in section 16.

SECTION 4: First aid measures

Product: CHEMOSIL® 342

4.1. Description of first aid measures

General Information: Remove affected person from source of contamination. Move affected person to fresh air and keep warm and resting in a position comfortable for breathing.

Inhalation: Move affected person to fresh air and keep warm in a position comfortable for breathing. Get medical attention if any discomfort continues.

Skin: Flush contaminated skin with large amounts of water while removing contaminated clothing. Wash affected skin areas with soap and water. Get medical attention if symptoms occur.

Eye: Flush eyes immediately with large amount of water for at least 15 minutes holding eyelids open while flushing. Get medical attention if any discomfort continues.

Ingestion: If swallowed, do not induce vomiting. Call a physician or poison control center immediately for further instructions. Never give anything by mouth if victim is rapidly losing consciousness, unconscious or convulsing.

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

General Information: Effects may be delayed. Keep affected person under observation.

Inhalation: May cause drowsiness or dizziness.

Skin: May cause an allergic skin reaction. Repeated exposure may cause skin dryness or cracking.

Eye: Causes serious eye irritation.

Ingestion: May cause discomfort if swallowed.

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

Notes to physician: Treat per symptoms., Effects may be delayed. Keep affected person under observation.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Carbon Dioxide, Dry chemical, Foam, Water fog
Unsuitable extinguishing media: Do not use water jet as this may spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards possibly arising from the chemical: Flammable liquid and vapor. Vapours are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back. Keep container tightly closed. Isolate from heat, electrical equipment, sparks, open flame, and other sources of ignition. Closed containers may rupture when exposed to extreme heat. Use water spray to keep fire exposed containers cool. Solvents contained in the product evaporate during processing and their vapours can form explosive/highly inflammable air/vapour mixtures.

Hazardous combustion products: Fire or high temperatures create: Carbon monoxide (CO), Carbon dioxide (CO2). Refer to section 10 of this safety data sheet for more information on hazardous decomposition products. During a fire, irritating and/or toxic gases and particulate may be generated by thermal decomposition or combustion.

5.3. Advice for firefighters

Protective actions during firefighting Move containers from fire area if it can be done without risk. Control run-off water to avoid it entering sewers and/or watercourses.

Product: CHEMOSIL® 342

Special protective equipment and precautions for fire-fighters: Wear full firefighting protective clothing, including self contained breathing apparatus. Water spray may be ineffective. If water is used, fog nozzles are preferable.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition (flame, hot surfaces, and electrical, static or frictional sparks). Avoid breathing vapors. Use self-contained breathing equipment. Avoid contact. See Section 5 for cautionary information on the dried residue of this product.

6.2. Environmental precautions

Do not contaminate bodies of water, waterways, or ditches, with chemical or used container.

6.3. Methods and materials for containment and cleanup

Keep non-essential personnel a safe distance away from the spill area. Remove all sources of ignition (flame, hot surfaces, and electrical, static or frictional sparks). Avoid breathing vapors. Use self-contained breathing equipment. Notify appropriate authorities if necessary. Before attempting cleanup, refer to hazard caution information in other sections of this safety data sheet. Contain and remove with inert absorbent material and non-sparking tools. Avoid contact.

6.4. Reference to other sections

For personal protection, see Section 8. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Keep closure tight and container upright to prevent leakage. Ground and bond containers when transferring material. Avoid skin and eye contact. Wash thoroughly after handling. Avoid breathing of vapor or spray mists. Do not handle until all safety precautions have been read and understood. Empty containers should not be re-used. Use with adequate ventilation. Because empty containers may retain product residue and flammable vapors, keep away from heat, sparks and flame; do not cut, puncture or weld on or near the empty container. Do not smoke where this product is used or stored.Use explosion proof electric equipment.

Protective measures

Measures to prevent fire: Move containers from fire area if it can be done without risk. Control run-off water to avoid it entering sewers and/or watercourses.

Measures to prevent aerosol and dust generation: Do not sand or grind dried product.

Measures to protect the environment: Do not contaminate bodies of water, waterways, or ditches, with chemical or used container. Avoid release to the environment.

Advice on general occupational hygiene: Wash hands before eating, smoking, or using toilet facility. Do not smoke in any chemical handling or storage area. Food or beverages should not be consumed anywhere this product is handled or stored. Wash thoroughly after handling. Contaminated clothing to be placed in closed container until disposal or decontamination. Warn cleaning personnel of chemical's hazardous properties.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions: Do not store or use near heat, sparks, or open flame. Store only in well-ventilated areas. Do not puncture, drag, or slide container. Keep container closed when not in use.

Storage class: 3

Product: CHEMOSIL® 342

Incompatibilities: Strong oxidizers, acids, bases, water. Halogens. Halocarbons Metals

7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Chemical Name	CAS Number	Regulatory list	Value type	Value
4-methylpentan-2-one	108-10-1	European Union - IOELVs	STEL	208 mg/m3
		European Union - IOELVs	TWA	83 mg/m3
		Ireland	STEL	208 mg/m3
		Ireland	TWA	83 mg/m3
butanone	78-93-3	European Union - IOELVs	STEL	900 mg/m3
		European Union - IOELVs	TWA	600 mg/m3
		Ireland	STEL	900 mg/m3
		Ireland	TWA	600 mg/m3
Phenol-formaldehyde polymer	9003-35-4	Not established	N.E.	N.E.
zinc oxide	1314-13-2	Ireland	STEL	10 mg/m3
		Ireland	TWA	2 mg/m3
		NIOSH	STEL	10 mg/m3
		NIOSH	TWA	5 mg/m3
methenamine	100-97-0	Not established	N.E.	N.E.
Phenol	108-95-2	2009/161/EU OEL	STEL	16 mg/m3
		2009/161/EU OEL	TWA	8 mg/m3
		Ireland	STEL	16 mg/m3
		Ireland	TWA	8 mg/m3
Toluene	108-88-3	European Union - IOELVs	STEL	384 mg/m3
		European Union - IOELVs	TWA	192 mg/m3
		Ireland	STEL	384 mg/m3
		Ireland	TWA	192 mg/m3
Formaldehyde	50-00-0	2004/37/EC OEL	STEL	0.74 mg/m3
		Ireland	STEL	0.738 mg/m3
		Ireland	STEL	0.62 mg/m3
		Ireland	TWA	0.37 mg/m3
		Ireland	TWA	0.62 mg/m3
		2004/37/EC OEL	TWA	0.37 mg/m3
		2004/37/EC OEL	TWA	0.62 mg/m3

Derived No Effect Level / Derived Minimal Effect Level

4-methylpentan-2-one	108-10-1	DNEL workers, long term exposure - systemic effects, Dermal: 11.8 mg/kg bw/day DNEL workers, long term exposure - systemic effects, inhalation: 83 mg/m383 mg/m3 DNEL workers, long term exposure - local effects, inhalation: 83 mg/m383 mg/m3 DNEL workers, acute/short term exposure - systemic effects, inhalation: 208 mg/m3208 mg/m3 DNEL workers, acute/short term exposure - local effects, inhalation: 208 mg/m3208 mg/m3
butanone	78-93-3	DNEL workers, long term exposure - systemic effects, inhalation: 600 mg/m3600 mg/m3 DNEL workers, acute/short term exposure - systemic effects, inhalation: 900

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		mg/m3900 mg/m3 DNEL workers, long term exposure - systemic effects, Dermal: 1161 mg/kg bw/day
Phenol-formaldehyde polymer	9003-35-4	DNEL workers, long term exposure - systemic effects, Dermal: 28 mg/kg bw/day DNEL workers, long term exposure - systemic effects, inhalation: 98.7 mg/m398.7 mg/m3
zinc oxide	1314-13-2	Not established
methenamine	100-97-0	DNEL workers, long term exposure - systemic effects, Dermal: 6.4 mg/kg bw/day DNEL workers, long term exposure - systemic effects, inhalation: 5.6 mg/m35.6 mg/m3
Phenol	108-95-2	DNEL workers, long term exposure - systemic effects, inhalation: 8 mg/m38 mg/m3 DNEL workers, acute/short term exposure - local effects, inhalation: 16 mg/m316 mg/m3 DNEL workers, long term exposure - systemic effects, Dermal: 1.23 mg/kg bw/day
Toluene	108-88-3	DNEL workers, long term exposure - systemic effects, Dermal: 384 mg/kg bw/day DNEL workers, long term exposure - systemic effects, inhalation: 192 mg/m3192 mg/m3 DNEL workers, long term exposure - local effects, inhalation: 192 mg/m3192 mg/m3 DNEL workers, acute/short term exposure - systemic effects, inhalation: 384 mg/m3384 mg/m3 DNEL workers, acute/short term exposure - local effects, inhalation: 384 mg/m3384 mg/m3
Formaldehyde	50-00-0	DNEL workers, long term exposure - local effects, Dermal: 37 µg/cm2 DNEL workers, long term exposure - systemic effects, Dermal: 240 mg/kg bw/day DNEL workers, long term exposure - local effects, inhalation: 0.375 mg/m30.375 mg/m3 DNEL workers, acute/short term exposure - local effects, inhalation: 0.75 mg/m30.75 mg/m3 DNEL workers, long term exposure - systemic effects, inhalation: 9 mg/m39 mg/m3

Predicted No Effect Concentration

4-methylpentan-2-one	108-10-1	0.6 mg/L Freshwater
4-methylpentan-2-one	108-10-1	0.06 mg/L Marine water
4-methylpentan-2-one	108-10-1	1.5 mg/L freshwater (intermittent releases)
4-methylpentan-2-one	108-10-1	8.27 mg/kg sediment dw sediment (freshwater)
4-methylpentan-2-one	108-10-1	0.83 mg/kg sediment dw sediment (marine water)
4-methylpentan-2-one	108-10-1	27.5 mg/L sewage treatment
4-methylpentan-2-one	108-10-1	1.3 mg/kg soil dw Soil
Phenol-formaldehyde polymer	9003-35-4	10 µg/L Marine water
Phenol-formaldehyde polymer	9003-35-4	6.73 mg/kg sediment dw sediment (freshwater)

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Phenol-formaldehyde polymer	9003-35-4	0.673 mg/kg sediment dw sediment (marine water)
Phenol-formaldehyde polymer	9003-35-4	1.29 mg/kg soil dw Soil
Phenol-formaldehyde polymer	9003-35-4	0.1 mg/L Freshwater
Phenol-formaldehyde polymer	9003-35-4	1 mg/L freshwater (intermittent releases)
Phenol-formaldehyde polymer	9003-35-4	0.1 mg/L marine water (intermittent releases)
methenamine	100-97-0	3 mg/L Freshwater
methenamine	100-97-0	0.3 mg/L Marine water
methenamine	100-97-0	30 mg/L freshwater (intermittent releases)
methenamine	100-97-0	30 mg/L marine water (intermittent releases)
methenamine	100-97-0	10.2 mg/kg sediment dw sediment (freshwater)
methenamine	100-97-0	1.02 mg/kg sediment dw sediment (marine water)
methenamine	100-97-0	100 mg/L sewage treatment
methenamine	100-97-0	0.28 mg/kg soil dw Soil
Phenol	108-95-2	0.0077 mg/L Freshwater
Phenol	108-95-2	0.00077 mg/L Marine water
Phenol	108-95-2	0.031 mg/L freshwater (intermittent releases)
Phenol	108-95-2	0.0915 mg/kg sediment dw sediment (freshwater)
Phenol	108-95-2	0.00915 mg/kg sediment dw sediment (marine water)
Phenol	108-95-2	2.1 mg/L sewage treatment
Phenol	108-95-2	0.136 mg/kg soil dw Soil

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Sufficient ventilation in pattern and volume should be provided in order to maintain air contaminant levels below recommended exposure limits. Caution: Solvent vapors are heavier than air and collect in lower levels of the work area. Sufficient ventilation (using explosion-proof equipment) should be provided to prevent flammable vapor/air mixtures from accumulating.

8.2.2. Personal protection measures/equipment

Eye protection: Use safety eyewear including safety glasses with side shields and chemical goggles where splashing may occur. Eye protection equipment should comply with EN166.

Skin protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. To protect hands from chemicals, gloves should comply with European Standard EN374. The choice of protective gloves depends upon the chemicals being handled, and the conditions of work and use. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. Use neoprene, nitrile, or rubber gloves to prevent skin contact.

Other protective equipment: Use disposable or impervious clothing if work clothing contamination is likely. Remove and wash contaminated clothing before reuse. The protective clothing should comply with EN 14605 (liquid chemicals).

Hygiene measures: Wash hands before eating, smoking, or using toilet facility. Do not smoke in any chemical handling or storage area. Food or beverages should not be consumed anywhere this product is handled or stored. Wash thoroughly after handling. Contaminated clothing to be placed in closed container until disposal or decontamination. Warn cleaning personnel of chemical's hazardous properties.

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Respiratory protection: If ventilation is inadequate, suitable respiratory protection must be worn. No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational exposure limit.

8.2.3. Environmental exposure controls

Environmental exposure controls: Store in a demarcated bunded area to prevent release to drains and/or watercourses. Do not empty into drains, soil or bodies of water.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Color	Grey
Odor	Aromatic Organic Solvent
Melting point/Freeze point	Not determined
Initial boiling point and range	79 - 116 °C
Flammability (Solid, Gas, Liquid)	N.A.
Lower explosion limit	Not determined
Upper explosive limit	Not determined
Flash point	9 °C Pensky-Martens Closed Cup
Autoignition temperature	Not determined
Decomposition temperature	Not determined
PH	Not available
Viscosity, kinematic	≥ 56 mm2/s @ 25 °C
Water solubility	Insoluble
Partition coefficient: n-octanol/water	Not applicable
Vapor pressure	Not determined
Relative density	0.90 kg/l - 0.94 kg/l
Vapor density	Not determined
Particle characteristics	Not applicable
Odor threshold	Not available

9.2. Other information

9.2.1 Information with regard to physical hazard classes

Explosives	Product is not classified in the respective physical hazard class.
Flammable gases	Product is not classified in the respective physical hazard class.
Aerosols	Product is not classified in the respective physical hazard class.
Oxidizing gases	Product is not classified in the respective physical hazard class.
Gases under pressure	Product is not classified in the respective physical hazard class.
Flammable liquids	Category 2
Flammable solids	Product is not classified in the respective physical hazard class.
Self-reactive substances and mixtures	Product is not classified in the respective physical hazard class.
Pyrophoric liquids	Product is not classified in the respective physical hazard class.
Pyrophoric solids	Product is not classified in the respective physical hazard class.
Self-heating substances and mixtures	Product is not classified in the respective physical hazard class.
Substances and mixtures which in contact with water emit flammable gases	Product is not classified in the respective physical hazard class.
Oxidizing liquids	Product is not classified in the respective physical hazard class.
Oxidizing solids	Product is not classified in the respective physical hazard class.
Organic peroxides	Product is not classified in the respective physical hazard class.
Corrosive to metals	Product is not classified in the respective physical hazard class.

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Desensitised explosives	Product is not classified in the respective physical hazard class.

9.2.2 Other safety characteristics

Volatile organic compound (VOC)	75 % The VOC-value given was calculated according to the guidelines specified in Directive 2010/75/EU.

Typical values, not to be used for specification purposes.

SECTION 10: Stability and Reactivity

10.1. Reactivity
There are no known reactivity hazards associated with this product.

10.2. Chemical stability
Product is stable under normal storage conditions.

10.3. Possibility of hazardous reactions
Hazardous polymerisation will not occur under normal conditions.

10.4. Conditions to avoid
High temperatures. Sources of ignition.

10.5. Incompatible materials
Strong oxidizers, acids, bases, water.; Halogens.; Halocarbons; Metals

10.6. Hazardous decomposition products
Does not decompose when used and stored as recommended. Decomposition due to high temperatures or a fire causes the formation of irritating and/or toxic gases or fumes. Carbon dioxide, carbon monoxide, chlorine, hydrogen chloride. Halogenated compounds

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Product

Acute toxicity-- Oral: No data
Acute toxicity-- Dermal: No data
Acute toxicity-- Inhalation: No data

Substance

Chemical Name	LD50/LC50
4-methylpentan-2-one	Oral LD50: Rat 2,080 mg/kg Dermal LD50: Rat > 2,000 mg/kg GHS LC50 (vapour): Rat 11.6 mg/l /4 h
butanone	Oral LD50: Rat 2,193 mg/kg Dermal LD50: Rabbit > 8,100 mg/kg GHS LC50 (vapour): Rat 10,000 mg/l /4 h
Phenol-formaldehyde polymer	Oral LD50: Rat > 5 g/kg Dermal LD50: Rat > 2,000 mg/kg Inhalation LC50: Mouse 7,570 mg/m3 /2 h
zinc oxide	Oral LD50: Rat > 5,000 mg/kg Dermal LD50: Rat > 2,000 mg/kg

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	GHS LC50 (dust and mist): Rat > 5.7 mg/l /4 h
methenamine	Oral LD50: Rat > 20,000 mg/kg Dermal LD50: Rat > 2,000 mg/kg
Phenol	Oral LD50: Mouse 270 mg/kg Dermal LD50: Rabbit 630 mg/kg
Toluene	Oral LD50: Rat 5,580 mg/kg Oral LD50: Rat 5,000 mg/kg Dermal LD50: Rabbit > 5,000 mg/kg GHS LC50 (vapour): Rat 25.7 mg/l /4 h
Formaldehyde	Oral LD50: Rat 800 mg/kg Dermal LD50: Rabbit 270 mg/kg GHS LC50 (vapour): Rat /4 hInhalation LC50: Rat 578 mg/m3 /4 h

Acute toxicity Oral: No classification proposed

Acute toxicity Dermal: No classification proposed

Acute toxicity Inhalation - Dust and Mist: Category 4 - Harmful if inhaled.
ATE Inhalation - Dust and Mist: 2.0
Components contributing to classification: 4-methylpentan-2-one. zinc oxide. Phenol.

Acute toxicity Inhalation - Vapour: Category 4 - Harmful if inhaled.
ATE Inhalation - Vapour: 14.9
Components contributing to classification: 4-methylpentan-2-one. zinc oxide. Phenol.

Acute toxicity Inhalation - Gas: No classification proposed

Skin corrosion/irritation: No classification proposed

Eye irritation: Category 2 - Causes serious eye irritation.
Components contributing to classification: 4-methylpentan-2-one. butanone.

Skin sensitization: Category 1 - May cause an allergic skin reaction.
Components contributing to classification: Phenol-formaldehyde polymer. methenamine.

Respiratory sensitization: No classification proposed

Germ cell mutagenicity: No classification proposed

Carcinogenicity: Category 2 - Suspected of causing cancer.
Components contributing to classification: 4-methylpentan-2-one.

Reproductive toxicity: No classification proposed

Specific target organ systemic toxicity (single exposure): Category 3 - May cause drowsiness or dizziness.
Components contributing to classification: 4-methylpentan-2-one.

Specific target organ systemic toxicity (repeated exposure): No classification proposed

Aspiration hazard: No classification proposed

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

This product contains the following substance/substances known to have endocrine disrupting properties:
To the best of our knowledge this mixture does not contain any substances > 0.1% (w/w) that are assessed to have endocrine disrupting properties.

Product: CHEMOSIL® 342

11.2.2. Other information

Refer to section 2.3

The present product is a chemical preparation within the meaning of the REACh Regulation 1907/2006/EC. To avoid testing the product in animal experiments the evaluation is made based on toxicological data and content by weight of the individual ingredients according to 1272/2008/EC or analagous evaluations of comparable products.

SECTION 12: Ecological information

12.1. Toxicity

Product

Fish (Acute): No data
Invertebrates (Acute): No data
Plants (Acute): No data
Fish (Chronic): No data
Invertebrates (Chronic): No data

Substance

Chemical Name	Ecotoxicity
4-methylpentan-2-one	Fish: Pimephales promelas 496 - 514 mg/l96 h flow-through Danio rerio 179 mg/l96 h Invertebrates: Daphnia magna 170 mg/l48 h Daphnia magna 200 mg/l48 h Plants: Pseudokirchneriella subcapitata 400 mg/l96 h
butanone	Fish: Pimephales promelas 2,993 mg/l96 h Invertebrates: Daphnia magna > 520 mg/l48 h Daphnia magna 5,091 mg/l48 h Daphnia magna 4,025 - 6,440 mg/l48 h Static Daphnia magna 308 mg/l48 h
Phenol-formaldehyde polymer	N.D.
zinc oxide	Invertebrates: Daphnia magna 0.04 mg/l21 d semi-static
methenamine	Fish: Pimephales promelas 44,600 - 55,600 mg/l96 h flow-through Leuciscius idus 41,000 mg/l96 h Invertebrates: Daphnia magna 29,868 - 43,390 mg/l48 h
Phenol	Fish: Lepomis macrochirus 11.5 mg/l96 h semi-static Poecilia reticulata 31 mg/l96 h semi-static Brachydanio rerio 27.8 mg/l96 h Oryzias latipes 23.4 - 36.6 mg/l96 h Static Pimephales promelas 11.9 - 50.5 mg/l96 h flow-through Oncorhynchus mykiss 8.9 mg/l96 h Invertebrates: Daphnia magna 4.24 - 10.7 mg/l48 h Static Daphnia magna 10.2 - 15.5 mg/l48 h Ceriodaphnia dubia 0.0994 mg/l48 h Plants: Pseudokirchneriella subcapitata 46.42 mg/l96 h Desmodesmus subspicatus 187 - 279 mg/l72 h Static
Toluene	Fish: Pimephales promelas 12.6 mg/l96 h Static Oncorhynchus mykiss 5.8 mg/l96 h semi-static Lepomis macrochirus 11.0 - 15.0 mg/l96 h Static Oryzias latipes 54 mg/l96 h Static Poecilia reticulata 28.2 mg/l96 h semi-static Morone saxatilis 5.5 mg/l96 h Invertebrates: Daphnia magna 11.5 mg/l48 h Ceriodaphnia dubia 3.78 mg/l48 h Plants: Pseudokirchneriella subcapitata 12.5 mg/l72 h Static
Formaldehyde	Fish: Pimephales promelas 22.6 - 25.7 mg/l96 h flow-through Brachydanio rerio 41 mg/l96 h Static

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	Oncorhynchus mykiss 6.18 mg/l96 h Invertebrates: Daphnia magna 2 mg/l48 h Daphnia magna 11.3 - 18 mg/l48 h Static daphnia pulex 5.8 mg/l48 h Daphnia magna >= 6.4 mg/l21 d semi-static

12.2. Persistence and degradability

Abiotic degradation: Not determined for this product.
Physical- and photo-chemical elimination: Not determined for this product.
Biodegradation: Not determined for this product.

12.3. Bioaccumulative potential

Partition coefficient: n-octanol/water (log Kow): No data available
Bioconcentration factor (BCF): No data available

12.4. Mobility in soil

Known or predicted distribution to environmental compartments: The product is Insoluble in water.
Surface tension: No data available
Adsorption/Desorption: No data available

12.5. Results of PBT and vPvB assessment

Due to missing data, not all ingredients could be reviewed on PBT and vPvB criteria. To the best of our knowledge this mixture does not contain any substances > 0.1% (w/w) that are assessed to be a PBT or a vPvB.

12.6. Endocrine disrupting properties

This product contains the following substance/substances known to have endocrine disrupting properties:
To the best of our knowledge this mixture does not contain any substances > 0.1% (w/w) that are assessed to have endocrine disrupting properties.

12.7. Other adverse effects

Not determined for this product.

12.8. Additional information

If used properly the product does not enter the drains.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General Information: Do not dump into any sewers, on the ground, or into any body of water. Not to be disposed of together with household waste. Any disposal practice must be in compliance with all local and national laws and regulations. Handle and dispose contaminated packages in the same way as the product itself. Fully cured product residues are generally not regarded as hazardous waste.

Disposal methods: The product as supplied should be disposed of as hazardous waste according to European Directive 91/689/EEC., Empty containers must not be punctured or incinerated because of the risk of an explosion.

Waste class: The waste code number applies to actual wastes depending on its origin and not to substances or mixtures as placed on the market. Only the practical application of the user enables the proper allocation. Allocation of the waste code number according to the European Waste Catalogue (Commission Decision 2000/532/EC and 2001/118/EC) should be carried out in agreement with the regional waste disposal company and/or the supervisory authority.

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SECTION 14: Transport Information

		ADR/RID:	ADNR:	IMDG:	IATA/ICAO:
14.1.	UN number	1133	1133	1133	1133
14.2.	UN proper shipping name	Adhesives	Adhesives	Adhesives	Adhesives
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
14.6.	Special precautions for user	Emergency action Code: 3YE Hazard identification No: 33 Tunnel Code: D/E	Hazard identification No: 33	EmS: F-E, S-D	EmS: 3L
14.7.	Maritime transport in bulk according to IMO instruments	Not applicable	Not applicable	Not applicable	Not applicable

SECTION 15: Regulatory information

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

1907/2006/EC Article 59(1) - Candidate List of Substances Subject to Authorization
This mixture does not contain substances which are subject to an authorisation according to Regulation (EC) No. 1907/2006 (REACH).

1907/2006 (REACH).1907/2006/EC - Annex XIV - Substances Subject to Authorization
This mixture does not contain substances which are subject to an authorisation according to Regulation (EC) No. 1907/2006 (REACH).

1907/2006/EC - Annex XVII - Restrictions on Certain Dangerous Substances

Use restriction. See entry 78: This product contains synthetic polymer microparticles of the following type(s) and percentage(s):

3904 Polymers of vinyl chloride or of other halogenated olefins, in primary forms.	6%

The synthetic polymer microparticles supplied are subject to conditions laid down by entry 78 of Annex XVII to Regulation (EC) No 1907/2006 of the European Parliament and of the Council.

Toluene	Use restricted. See item 48.
Formaldehyde	Use restricted. See entry 72.
Formaldehyde	Use restricted. See entry 77.
Formaldehyde	Use restricted. See entry 28.

The above ANNEX XVII restrictions are displayed for information purposes. It is the responsibility of the company using our trade product to evaluate if the restricted conditions of manufacture, placing on the

market and use are applicable. Our trade products are exclusively for professional and industrial use, no consumer use or sales to the general public (see section 1.2).

EU - Persistent Organic Pollutants (850/2004)
This mixture does not contain substances considered to be a persistent organic pollutant (POP).

EU - Substances Depleting the Ozone Layer (1005/2009)
This mixture does not contain substances considered to be ozone depleters.

EU - Seveso III Directive (2012/18/EU)
SEVESO-III (Directive 2012/18/EU) on the control of major-accident hazards involving dangerous substances: For specific guidance regards national requirements please consult the transposition applicable in the country of interest.

Applicable SEVESO-III category/categories: P5c.

This mixture contains the following substance(s) listed as such in Annex I of the SEVESO directive:
Formaldehyde

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

16.1. Indication of changes

Section 2, Section 3

16.2. Key or legend to abbreviations and acronyms used in the safety data sheet

ATE: Acute Toxicity Estimate.ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.CAS: Chemical Abstracts Service. GHS: Globally Harmonized System.IATA: International Air Transport Association.ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.IMDG: International Maritime Dangerous Goods.PBT: Persistent, Bioaccumulative and Toxic substance.REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.SVHC: Substances of Very High Concern.vPvB: Very Persistent and Very Bioaccumulative. DNEL: Derived No Effect Level. PNEC: Predicted No Effect Concentration.

16.3. Key literature references and sources for data

GESTIS-database on hazardous substances.Safety Data Sheets of raw material suppliers.Substance Infocards (ECHA website).

16.4. Classification procedures according to Regulation (EC) 1272/2008[2]

Physical hazard (if applicable): All physical hazards indicated in section 2 are based on test data.
Health hazards: For further information on the methods used for classification, please refer to section 11 of this SDS.
Environmental hazards (if applicable): All environmental hazards indicated in section 2 are based on the calculation methods according to 1272/2008/EC.

16.5. Relevant H- and EUH- phrases (number and full text)

Section 2 Phrases

H225 Highly flammable liquid and vapor.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.

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H332 Harmful if inhaled.
H336 May cause drowsiness or dizziness.
H351 Suspected of causing cancer.
H412 Harmful to aquatic life with long lasting effects.

Section 3 Phrases Hazard statements in full
EUH066 Repeated exposure may cause skin dryness or cracking.
H225 Highly flammable liquid and vapor.
H228 Flammable solid.
H301 Toxic if swallowed.
H304 May be fatal if swallowed and enters airways.
H311 Toxic in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H330 Fatal if inhaled.
H331 Toxic if inhaled.
H332 Harmful if inhaled.
H336 May cause drowsiness or dizziness.
H341 Suspected of causing genetic defects.
H350 May cause cancer.
H351 Suspected of causing cancer.
H361d Suspected of damaging the unborn child.
H373 May cause damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

16.6. Training advice

Refer to local regulations for information on required training.

16.7. Further information

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