



SAFETY DATA SHEET CHEMOSIL 211

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

1.1. Product identifier

Product name CHEMOSIL 211
Product number 3016466, 3016468, 3016460, 3020573

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

Identified uses For industrial and professional use only. Primer.

1.3. Details of the supplier of the safety data sheet

Supplier LORD Germany GmbH
 Ottostrasse 28
 D-41836 Hückelhoven
 Germany
 TEL : +49 (0) 2433-5257-0
 FAX: + 49 (0) 2433-5257-18
 Questions concerning the content of the SDS: EuropeMSDS@lord.com
 General requests: info.europe@lord.com

1.4. Emergency telephone number

Emergency telephone +49 (0) 2433 5257-0 Only available during office hours.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Flam. Liq. 2 - H225
Health hazards Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 Muta. 2 - H341
 STOT SE 3 - H335
Environmental hazards Aquatic Chronic 3 - H412

Physicochemical Solvents contained in the product evaporate during processing and their vapours can form explosive/highly inflammable air/vapour mixtures.

2.2. Label elements

Hazard pictograms



Signal word

Danger

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Hazard statements	H225 Highly flammable liquid and vapour. H332 Harmful if inhaled. H315 Causes skin irritation. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. H341 Suspected of causing genetic defects. H335 May cause respiratory irritation. H412 Harmful to aquatic life with long lasting effects.
Precautionary statements	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P243 Take action to prevent static discharges. P308+P313 IF exposed or concerned: Get medical advice/ attention. P403+P235 Store in a well-ventilated place. Keep cool. P280 Wear protective clothing, gloves, eye and face protection.
Contains	ISOBUTYL METHYL KETONE, Phenol-formaldehyde resin, PHENOL

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. Mixtures

ISOBUTYL METHYL KETONE 60-80%
CAS number: 108-10-1 EC number: 203-550-1 REACH registration number: 01-2119473980-30-XXXX
Classification Flam. Liq. 2 - H225 Acute Tox. 4 - H332 Eye Irrit. 2 - H319 STOT SE 3 - H335
REACTION MASS OF XYLENE AND ETHYLBENZENE 5-10%
CAS number: — REACH registration number: 01-2119488216-32-XXXX
Reaction mass of Xylene and Ethylbenzene: This is technical Xylene (CAS RN 1330-20-7) with up to 25% of Ethylbenzene (CAS RN 100-41-4).
Classification Flam. Liq. 3 - H226 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 STOT SE 3 - H335 STOT RE 2 - H373 Asp. Tox. 1 - H304

CHEMOSIL 211**Phenol-formaldehyde resin****1-5%**

CAS number: 9003-35-4

This substance is a polymer. Polymers are exempted from REACH registrations - Article 2(9) of REACH.

Classification

Skin Sens. 1 - H317

PHENOL**1 - < 3%**

CAS number: 108-95-2

EC number: 203-632-7

REACH registration number: 01-2119471329-32-XXXX

Classification

Acute Tox. 3 - H301

Acute Tox. 3 - H311

Acute Tox. 3 - H331

Skin Corr. 1B - H314

Eye Dam. 1 - H318

Muta. 2 - H341

STOT RE 2 - H373

Aquatic Chronic 2 - H411

ZINC OXIDE**1 - < 2%**

CAS number: 1314-13-2

EC number: 215-222-5

REACH registration number: 01-2119463881-32-XXXX

M factor (Acute) = 1

M factor (Chronic) = 1

Classification

Aquatic Acute 1 - H400

Aquatic Chronic 1 - H410

TOLUENE**<1%**

CAS number: 108-88-3

EC number: 203-625-9

REACH registration number: 01-2119471310-51-XXXX

Classification

Flam. Liq. 2 - H225

Skin Irrit. 2 - H315

Repr. 2 - H361d

STOT SE 3 - H336

STOT RE 2 - H373

Asp. Tox. 1 - H304

Aquatic Chronic 3 - H412

CHEMOSIL 211**FORMALDEHYDE****< 0.1%**

CAS number: 50-00-0

EC number: 200-001-8

REACH registration number: 01-
2119488953-20-XXXX**Classification**

Acute Tox. 3 - H301

Acute Tox. 3 - H311

Acute Tox. 3 - H331

Skin Corr. 1B - H314

Eye Dam. 1 - H318

Skin Sens. 1 - H317

Muta. 2 - H341

Carc. 1B - H350

STOT SE 3 - H335

The full text for all hazard statements is displayed in Section 16.

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

Move affected person to fresh air at once. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention. Keep affected person away from heat, sparks and flames.

Inhalation

Move affected person to fresh air at once. For breathing difficulties, oxygen may be necessary. If breathing stops, provide artificial respiration. Keep affected person warm and at rest. Get medical attention immediately.

Ingestion

Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth thoroughly with water. Get medical attention immediately.

Skin contact

Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention promptly if symptoms occur after washing.

Eye contact

Remove any contact lenses and open eyelids wide apart. Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

4.2. Most important symptoms and effects, both acute and delayed**General information**

Effects may be delayed. Keep affected person under observation.

Inhalation

Vapours may cause headache, fatigue, dizziness and nausea. Irritation of nose, throat and airway. Drowsiness, dizziness, disorientation, vertigo.

Ingestion

May cause discomfort if swallowed. May cause stomach pain or vomiting. Drowsiness, dizziness, disorientation, vertigo.

Skin contact

Skin irritation. Prolonged contact may cause redness, irritation and dry skin. Allergic rash.

Eye contact

Irritation of eyes and mucous membranes.

4.3. Indication of any immediate medical attention and special treatment needed**Notes for the doctor**

Effects may be delayed. Keep affected person under observation.

SECTION 5: Firefighting measures**5.1. Extinguishing media**

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Suitable extinguishing media Extinguish with the following media: Foam. Dry chemicals, sand, dolomite etc. Carbon dioxide (CO₂). Water fog.

5.2. Special hazards arising from the substance or mixture

Specific hazards The product is highly flammable. Risk of explosion in closed containers if pressure rises rapidly. Vapours are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back.

5.3. Advice for firefighters

Protective actions during firefighting Move containers from fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. Control run-off water by containing and keeping it out of sewers and watercourses.

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet.

6.2. Environmental precautions

Environmental precautions Do not discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Use non-sparking tools. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Absorb spillage with non-combustible, absorbent material. Collect and place in suitable waste disposal containers and seal securely. Do not touch or walk into spilled material.

6.4. Reference to other sections

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

Usage precautions Static electricity and formation of sparks must be prevented. Keep away from heat, sparks and open flame. Use explosion proof electric equipment. Avoid spilling. Avoid contact with skin and eyes. Provide adequate ventilation. Avoid inhalation of vapours. Use approved respirator if air contamination is above an acceptable level. Good personal hygiene procedures should be implemented. Persons susceptible to allergic reactions should not handle this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep only in the original container.

Storage class Flammable liquid storage.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/Personal protection

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8.1. Control parameters

Occupational exposure limits

ISOBUTYL METHYL KETONE

Long-term exposure limit (8-hour TWA): WEL 50 ppm 208 mg/m³

Short-term exposure limit (15-minute): WEL 100 ppm 416 mg/m³

Sk

PHENOL

Long-term exposure limit (8-hour TWA): WEL 2 ppm 7.8 mg/m³

Short-term exposure limit (15-minute): WEL 4 ppm 16 mg/m³

Sk

ZINC OXIDE

Long-term exposure limit (8-hour TWA): WEL 5 mg/m³

Short-term exposure limit (15-minute): WEL 10 mg/m³

TOLUENE

Long-term exposure limit (8-hour TWA): WEL 50 ppm 191 mg/m³

Short-term exposure limit (15-minute): WEL 100 ppm 384 mg/m³

Sk

FORMALDEHYDE

Long-term exposure limit (8-hour TWA): WEL 2 ppm 2.5 mg/m³

Short-term exposure limit (15-minute): WEL 2 ppm 2.5 mg/m³

ETHYLBENZENE

Long-term exposure limit (8-hour TWA): WEL 100 ppm 441 mg/m³

Short-term exposure limit (15-minute): WEL 125 ppm 552 mg/m³

Sk

XYLENE

Long-term exposure limit (8-hour TWA): WEL 50 ppm 220 mg/m³

Long-term exposure limit (8-hour TWA): WEL 50 ppm 220 mg/m³

Short-term exposure limit (15-minute): WEL 100 ppm 441 mg/m³

Short-term exposure limit (15-minute): WEL 100 ppm 441 mg/m³

Sk, Sk

WEL = Workplace Exposure Limit.

Sk = Can be absorbed through the skin.

Sk = Can be absorbed through skin.

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Use explosion-proof general and local exhaust ventilation.

Eye/face protection

Use approved safety glasses with side shields. Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles or face shield.

Hand protection

Wear protective gloves made of the following material: Butyl rubber. Polyvinyl alcohol (PVA). Viton rubber (fluoro rubber). 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.

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Other skin and body protection	Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.
Hygiene measures	Do not smoke in work area. Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke. Contaminated clothing should be placed in a closed container for disposal or decontamination. Warn cleaning personnel of any hazardous properties of the product.
Respiratory protection	No specific recommendations. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit. If ventilation is inadequate, suitable respiratory protection must be worn. Wear a respirator fitted with the following cartridge: Gas filter, type A2.
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

Appearance	Liquid.
Colour	Grey.
Odour	Solvent.
Odour threshold	Not available.
pH	Not available.
Melting point	Not available.
Initial boiling point and range	Not available.
Flash point	17°C Pensky-Martens closed cup.
Evaporation rate	Not available.
Evaporation factor	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	Upper flammable/explosive limit: 7.5 (Isobutyl Methyl Ketone) Lower flammable/explosive limit: 1.4 (Isobutyl Methyl Ketone)
Vapour pressure	Not available.
Relative density	0.92 - 0.96 @ 20°C
Solubility(ies)	Insoluble in water.
Partition coefficient	Not available.
Auto-ignition temperature	460 (Isobutyl Methyl Ketone)°C
Decomposition Temperature	Not available.
Viscosity	90 - 170 mPas (Brookfield Viscometer, Model LVT Spindle 2, 30 rpm) @ 25°C
Explosive properties	Not available.
Oxidising properties	Not available.

9.2. Other information

Other information	Electrical conductivity (EN 15938 @ 25°C): 1.96 µS/cm
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Volatile organic compound This product contains a maximum VOC content of 76% . The VOC-value given was calculated according to the guidelines specified in Directive 1999/13/EC.

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Stability Stable at normal ambient temperatures.

10.3. Possibility of hazardous reactions

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

10.4. Conditions to avoid

Conditions to avoid Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials to avoid None if used for intended purposes.

10.6. Hazardous decomposition products

Hazardous decomposition products Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Oxides of the following substances: Carbon. Hydrogen chloride (HCl).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects 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 analogous evaluations of comparable products.

Acute toxicity - oral

Notes (oral LD₅₀) Based on available data the classification criteria are not met.

ATE oral (mg/kg) 6,063.2

Acute toxicity - dermal

Notes (dermal LD₅₀) Based on available data the classification criteria are not met.

ATE dermal (mg/kg) 8,679.03

Acute toxicity - inhalation

Notes (inhalation LC₅₀) Harmful if inhaled.

ATE inhalation (vapours mg/l) 13.51

Skin corrosion/irritation

Skin corrosion/irritation Irritating to skin.

Serious eye damage/irritation

Serious eye damage/irritation Causes eye irritation.

Respiratory sensitisation

Respiratory sensitisation Based on available data the classification criteria are not met.

Skin sensitisation

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Skin sensitisation	Sensitising. May cause an allergic skin reaction.
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vitro	Suspected of causing genetic defects.
<u>Carcinogenicity</u>	
Carcinogenicity	Based on available data the classification criteria are not met.
<u>Reproductive toxicity</u>	
Reproductive toxicity - fertility	Based on available data the classification criteria are not met.
Reproductive toxicity - development	Based on available data the classification criteria are not met.
<u>Specific target organ toxicity - single exposure</u>	
STOT - single exposure	A single exposure may cause the following adverse effects: Irritating to respiratory system.
<u>Specific target organ toxicity - repeated exposure</u>	
STOT - repeated exposure	Based on available data the classification criteria are not met.
<u>Aspiration hazard</u>	
Aspiration hazard	Not relevant.

SECTION 12: Ecological information

Ecotoxicity	Do not empty into drains, soil or bodies of water. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
<u>12.1. Toxicity</u>	
<u>Acute aquatic toxicity</u>	
Acute toxicity - fish	No data available.
<u>12.2. Persistence and degradability</u>	
Persistence and degradability	No data available.
<u>12.3. Bioaccumulative potential</u>	
Bioaccumulative potential	No data available on bioaccumulation.
Partition coefficient	Not available.
<u>12.4. Mobility in soil</u>	
Mobility	The product is miscible with water and may spread in water systems.
<u>12.5. Results of PBT and vPvB assessment</u>	
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.
<u>12.6. Other adverse effects</u>	
Other adverse effects	Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID)	1133
UN No. (IMDG)	1133
UN No. (ICAO)	1133

14.2. UN proper shipping name

Proper shipping name (ADR/RID)	ADHESIVES
Proper shipping name (IMDG)	ADHESIVES
Proper shipping name (ICAO)	ADHESIVES
Proper shipping name (ADN)	ADHESIVES

14.3. Transport hazard class(es)

ADR/RID class	3
ADR/RID label	3
IMDG class	3
ICAO class/division	3

Transport labels



14.4. Packing group

ADR/RID packing group	II
IMDG packing group	II
ICAO packing group	II

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant
No.

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14.6. Special precautions for user

EmS	F-E, S-D
Emergency Action Code	•3YE
Hazard Identification Number (ADR/RID)	33
Tunnel restriction code	(D/E)

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory information

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

EU legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

Commission Regulation (EU) No 2015/830 of 28 May 2015.

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

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

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.

Key literature references and sources for data

Dangerous Properties of Industrial Materials Report, N.Sax et.al. Safety Data Sheets, Misc. manufacturers. GESTIS-database on hazardous substances (www.dguv.de/bgia/gestis-database).

Revision comments

NOTE: Lines within the margin indicate significant changes from the previous revision.

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Issued by	EU Regulatory Compliance Specialist (Product Safety).
Revision date	19/09/2019
Revision	18
Supersedes date	27/09/2018
SDS number	12542
Hazard statements in full	H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H301 Toxic if swallowed. H304 May be fatal if swallowed and enters airways. H311 Toxic in contact with skin. H312 Harmful 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. H331 Toxic if inhaled. H332 Harmful if inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H341 Suspected of causing genetic defects. H350 May cause 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.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use. NO PERSON OR ORGANIZATION EXCEPT A DULY AUTHORIZED LORD EMPLOYEE IS AUTHORIZED TO PROVIDE OR MAKE AVAILABLE DATA SHEETS FOR LORD PRODUCTS. DATA SHEETS FROM UNAUTHORIZED SOURCES MAY CONTAIN INFORMATION THAT IS NO LONGER CURRENT OR ACCURATE.