

Safety Data Sheet

According to Regulation EC No. 1907/2006

Semipermanentes Trennmittel – Lösemittel GP

Date of issue/Date of revision: 15.03.2021

en / GB - Version 1.0

1. Identification of the substance/preparation and of the company/undertaking

1.1 Identification of the substance

or preparation:

Semipermanentes Trennmittel – Lösemittel GP

1.2 Use of the substance/preparation:

Release agent for polyester- and epoxy resins

1.3 Company/undertaking identification

Company name:	Gößl + Pfaff GmbH
Street:	Münchener Str. 13
Place:	85123 Karlskron/Brautlach
Telephone:	+49 (0) 8450 / 932-0
Fax.:	+49 (0) 8450 / 932-13
Contact person:	Management: Mr. Gößl, Mr. Pfaff
E-Mail:	info@goessl-pfaff.de
Internet:	www.goessl-pfaff.de
Responsible Department:	Management

1.4 Emergency telephone

Emergency CONTACT (24-Hour-Number): GBK GmbH +49 (0) 6132-84463

2. Hazards identification

2.1. Classification of the substance or mixture Regulation (EC) No. 1272/2008

This mixture is not classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

2.2. Label elements

Regulation (EC) No. 1272/2008

Special labelling of certain mixtures

EUH210 Safety data sheet available on request.

Additional advice on labelling

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

2.3. Other hazards

Adverse physicochemical effects:

See section 9 for physical and chemical properties.

This material is combustible, but will not ignite readily.

The vapour of the product is heavier than air and may accumulate below ground level, in pits, channels and basements in higher concentration.

Vapours of flammable solvents can accumulate in the gas phase of closed container, especially during heat treatment.

Therefore keep away from fire and sources of ignition.

This material can accumulate static charge by flow or agitation and can be ignited by static discharge.

The product will be applied by spraying.

In use may form flammable/explosive vapour-air mixture.

Adverse human health effects and symptoms: See section 11 for toxicological information.

Adverse environmental effects:

See section 12 for environmental information.

Other adverse effects:

Special danger of slipping by leaking/spilling product.

Results of PBT-/vPvB-assesment:

See under section 12.5 - Results of PBT and vPvB assessment.

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3. Composition/information on ingredients**3.2. Mixtures****Chemical characterization**

Solution of active ingredients in a mixture of solvents

Hazardous components

CAS No	Chemical name	Quantity
	EC No	Index No
	REACH No	
	GHS Classification	
541-02-6	decamethylcyclopentasiloxane	90 – < 95 %
	208-764-9	01-2119511367-43
540-97-6	dodecamethylcyclohexasiloxane	1 – < 5 %
	208-762-8	01-2119517435-42

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
541-02-6	208-764-9	decamethylcyclopentasiloxane	90 – < 95 %
		inhalation: LC50 = 8,67 mg/l (dusts or mists); dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 5000 mg/kg	
540-97-6	208-762-8	dodecamethylcyclohexasiloxane	1 – < 5 %
		dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 2000 mg/kg	

Further Information

This product contains decamethylcyclopentasiloxane, dodecamethylcyclohexasiloxane, which has been classified by the ECHA Member States Committee as a product that meets the BPT- or vPvB criteria set out in Annex XIII to Regulation (EC) No. 1907/2006.

decamethylcyclopentasiloxane, dodecamethylcyclohexasiloxane was added in the list (Candidate list of SVHC for authorization) created in accordance with the REACH Regulation (Article 59, paragraph 1) (<https://echa.europa.eu/de/candidate-list-table>).

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

Remove affected person from the danger area and lay down.

Take off immediately all contaminated clothing and wash it before reuse.

Put victim at rest, cover with a blanket and keep warm.

Do not leave affected person unattended.

If a person vomits when lying on his back, place him in the recovery position.

If breathing is irregular or stopped, administer artificial respiration.

If unconscious place in recovery position and seek medical advice.

Never give anything by mouth to an unconscious person or a person with cramps.

In the event of cardiac arrest immediately perform cardiopulmonary resuscitation.

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Self-protection of the first aider:

Wear personal protection equipment (refer to section 8).

First Aid.

Notes for the doctor:

Aspiration hazard

Risk of product entering the lungs on vomiting after ingestion.

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Aspiration may cause pulmonary oedema and pneumonitis.

Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.

After inhalation

Remove victim out of the danger area.

Provide fresh air.

In the case of lung irritation: Primary treatment using corticoide spray, eg. Auxiloson spray, Pulmicort-dosage-spray. (Auxiloson and Pulmicort are registered trademarks.) Call a physician immediately.

Consult a doctor immediately in the case of inhaling spray mist and show him packing or label.

After contact with skin

Wash immediately with:

Water and soap

Rub greasy ointment into the skin.

Do not wash with:

Solvents/Thinner

In case of skin irritation, consult a physician.

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

Remove contact lenses, if present and easy to do. Continue rinsing.

If present: Initial treatment with Previn. (Previn is a registered trademark).

Protect uninjured eye.

After ingestion

Do NOT induce vomiting.

Give nothing to eat or drink.

Never give anything by mouth to an unconscious person or a person with cramps.

Call a physician immediately.

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

The following symptoms may occur:

Cough

Dyspnoea

Cyanosis (blue coloured blood)

Acidosis

Depression of central nervous system

Headache

Nausea

Drowsiness

Dizziness

Inebriation

Unconsciousness

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

Treat symptomatically.

5. Fire-fighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Water mist

Extinguishing powder (ABC-powder)

Foam

Carbon dioxide (CO₂)

Fire class (DIN EN 2): B (Fires of liquids or liquid turning substances).

Unsuitable extinguishing media

Full water jet

Water spray jet

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5.2. Special hazards arising from the substance or mixture

In principle, fire gasses of organic materials have to be classified as toxic to the respiratory system.
Burning produces heavy smoke.

Hazardous combustion products:

Carbon monoxide
carbon dioxide (CO₂)
Hydrocarbons
Silicon dioxide (SiO₂)
Nitrogen oxides (NO_x)
Pyrolysis products, toxic

5.3. Advice for firefighters

Usual measures of preventive and averting fire protection.
Co-ordinate fire-fighting measures to the fire surroundings.
Do not inhale explosion and combustion gases.
Move to fresh air in case of accidental inhalation of fumes from overheating or combustion.
Beware of reignition.
Use caution when applying carbon dioxide in confined spaces.
Carbon dioxide can displace oxygen.
Move undamaged containers from immediate hazard area if it can be done safely.
Stop and contain spill/release if it can be done safely. If this cannot be done, allow fire to burn under control.
Use water spray jet to protect personnel and to cool endangered containers.
Collect contaminated fire extinguishing water separately.
Do not allow entering drains or surface water.

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for firefighters:
Wear a self-contained breathing apparatus and chemical protective clothing.
DIN-/EN-Norms: EN 469
Firefighting protective clothing.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin, eyes and clothes.
Do not breathe vapour/aerosol.
In fine dispersion/spraying/misting: / In case of warming:
Remove all sources of ignition.
Prevent further leakage or spillage if safe to do so.
Remove persons to safety.
Be aware that gases can spread at ground level (heavier than air) and pay attention to the wind direction.
Provide adequate ventilation.
Special danger of slipping by leaking/spilling product.

For non-emergency personnel:
Use personal protection equipment.
Walk out of the danger zone and notify trained personnel.
Emergency procedures:
Keep the factory emergency plan and the information chain.

For emergency responders:
Use personal protection equipment.
The personal protective equipment must be adapted to the situation.

Suitable material:
See under section 8.2 - Personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

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Do not allow to enter into soil/subsoil.
 Ensure waste is collected and contained.
 Suppress gases/vapours/mists with water spray jet.
 In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

For containment:

Repair leaks if without risk.
 Move containers from spill area.
 Make sure spills can be contained, e.g. in sump pallets or kerbed areas.
 Prevent spread over a wide area (e.g. by containment or oil barriers).
 Remove from the water surface (e.g. skimming, sucking).
 Cover drains.

For cleaning up:

Clean-up methods - large spillage:
 Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).
 Shovel into suitable container for disposal.
 Local authorities should be advised if significant spillages cannot be contained.
 Clean-up methods - small spillage:
 Clear spills immediately.
 Wipe up with absorbent material (eg. cloth, fleece).
 Collect in closed and suitable containers for disposal.
 Clear contaminated areas thoroughly.
 Recommended cleansing agent:
 Clean with detergents.
 Avoid solvent cleaners.
 Retain contaminated washing water and dispose it.
 Ensure all waste water is collected and treated via a waste water treatment plant.
 Ventilate affected area.

Suitable material for taking up:

Sand
 Kieselguhr
 Universal binder
 Absorbing material, organic

Unsuitable material for taking up:

None known

6.4. Reference to other sections

Personal protection equipment: see section 8
 Disposal: see section 13

7. Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Measures to prevent aerosol and dust generation:
 All work processes must always be designed so that the following is as low as possible:
 Inhalation of vapours or spray/mists
 Eye contact
 Skin contact
 Technical ventilation of workplace
 Vapours are heavier than air.
 Provide room air exhaust at ground level.
 During filling, metering and sampling should be used if possible:
 Splashproof grounded devices
 Devices with local exhaust
 Use only in a exhaust booth with integrated air filter.

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Use in ventilated spray booths only.
Recirculation of exhaust air is not recommended.
Always close containers tightly after the removal of product.

Advice on protection against fire and explosion

Measures to prevent fire:

The product is: Combustible

The formation of combustible vapours is possible at temperatures above: +62 °C (Flash point - 15 °C)

Vapours can form explosive mixtures with air.

Spray mist may be flammable at temperatures below the flash point.

Provide earthing of containers, equipment, pumps and ventilation facilities.

Use explosion-proof machinery, apparatus, ventilation facilities, tools etc.

Use non-sparking tools.

Take precautionary measures against static discharges.

Only use the material in places where open light, fire and other flammable sources can be kept away.

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

Usual measures for fire prevention.

Never use pressure to empty container.

Wear anti-static footwear and clothing

Measures according to German "Explosion rules" required:

Prevention measures regarding formation of explosible atmosphere (restriction and supervision of concentration, inertisation, airtightness, ventilation, warning device, etc.).

Prevention measures regarding ignition of explosible atmosphere (zone graduation, removing of ignition sources, explosion-proof electrical installation, earthing, etc.).

Constructive measures for restriction of effects regarding explosions (resistance to pressure of explosions, discharge of pressure of explosions, suppression of explosions, etc.).

Further information on handling

Environmental precautions:

Shafts and sewers must be protected from entry of the product.

Transfer wash-downs in sealed containers.

Provide for retaining containers, eg. floor pan without outflow.

For restriction of emission on volatile organic compounds (VOC) the solvent vapours should be supplied to an exhaust air purification facility (filter, gas washer, incineration).

Advices on general occupational hygiene:

Wear personal protection equipment (refer to section 8).

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.

General industrial hygiene practice.

Handle in accordance with good industrial hygiene and safety practice.

Working places should be designed to allow cleaning at any time.

Floors, walls and other surfaces in the hazard area must be cleaned regularly.

Clean spray booth and exhaust hood completely with every product change.

When using do not eat, drink, smoke, sniff.

Thorough skin-cleansing after handling the product.

Used working clothes should not be worn outside the work area.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Suitable floor material:

Floors should be impervious, resistant to liquids and easy to clean.

Protect against:

Heat

Cold

Handle and store contents under inert gas.

Protect from moisture.

Inert gas: nitrogen

Recommended storage temperature: +10 ... +30 °C

Keep away from:

Food and feedingstuffs

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Packaging materials:

Suitable container/equipment material:

Keep/Store only in original container.

Unsuitable container/equipment material:

See under section 8.2 - Hand protection.

Hints on joint storage

Do not store together with:

Storage class:

1 (Explosive hazardous substances)

2 A (Gases (except aerosol dispensers and lighters))

5.1 B (Highly oxidising substances) 6.2 (Infectious substances)

7 (Radioactive substances)

Further information on storage conditions

Technical measures and storage conditions:

The valid water and zoning ordinances must be observed.

Heating causes rise in pressure with risk of bursting.

Keep away from sources of ignition - No smoking.

Keep in a cool, well-ventilated place.

Keep container tightly closed.

Protect containers against damage.

Ensure adequate ventilation of the storage area.

Store small packages in a suitable, robust cabinet.

Do not store outside.

See also instructions on the label.

7.3. Specific end use(s)

Recommendation:

Possibilities for substitution and references to less hazardous products:

This product was designed for a special application purpose and optimized appropriately.

In case of questions regarding product and application, please contact our field service in line with customer service or our technical sales department.

Observe technical data sheet.

Industrial sector specific solutions:

Hazardous substance information systems of professional associations:

8. Exposure controls/personal protection**8.1. Control parameters****DNEL/DMEL values**

CAS No	Substance			
DNEL type	Exposure route	Effect	Value	
541-02-6	decamethylcyclopentasiloxane			
Worker DNEL, acute	inhalation	local	24,2 mg/m ³	
Worker DNEL, long-term	inhalation	local	24,2 mg/m ³	
Worker DNEL, acute	inhalation	systemic	97,3 mg/m ³	
Worker DNEL, long-term	inhalation	systemic	97,3 mg/m ³	
Consumer DNEL, acute	inhalation	local	4,3 mg/m ³	
Consumer DNEL, long-term	inhalation	local	4,3 mg/m ³	
Consumer DNEL, acute	inhalation	systemic	17,3 mg/m ³	
Consumer DNEL, long-term	inhalation	systemic	17,3 mg/m ³	
Consumer DNEL, acute	oral	systemic	5 mg/kg bw/day	
Consumer DNEL, long-term	oral	systemic	5 mg/kg bw/day	

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540-97-6	dodecamethylcyclohexasiloxane		
Worker DNEL, long-term	inhalation	systemic	11 mg/m ³
Worker DNEL, long-term	inhalation	local	1,22 mg/m ³
Worker DNEL, acute	inhalation	local	6,1 mg/m ³
Consumer DNEL, long-term	inhalation	systemic	2,7 mg/m ³
Consumer DNEL, long-term	inhalation	local	0,3 mg/m ³
Consumer DNEL, acute	inhalation	local	1,5 mg/m ³
Consumer DNEL, long-term	oral	systemic	1,7 mg/kg bw/day
Consumer DNEL, acute	oral	systemic	1,7 mg/kg bw/day

PNEC values

CAS No	Substance		Value
Environmental compartment			
541-02-6	decamethylcyclopentasiloxane		
Freshwater			> 0,0012 mg/l
Marine water			> 0,00012 mg/l
Freshwater sediment			2,4 mg/kg
Marine sediment			0,24 mg/kg
Micro-organisms in sewage treatment plants (STP)			> 10 mg/l
Soil			1,1 mg/kg
540-97-6	dodecamethylcyclohexasiloxane		
Freshwater sediment			13 mg/kg
Marine sediment			1,3 mg/kg
Secondary poisoning			66,7 mg/kg
Soil			3,77 mg/kg

Additional advice on limit values

GESTIS - International Limit Values - Institut für Arbeitsschutz der Deutschen Gesetzlichen Unfallversicherung (IFA):

<http://limitvalue.ifa.dguv.de>

Country information (EU) (<http://www.dguv.de/ifa/fachinfos/occupational-exposure-limit-values/foreign-and-eu-limit-values/index.jsp>)

Country information (GB) (<http://www.hse.gov.uk/pubns/books/eh40.htm>)

Occupational Exposure Limits of EU-memberstates - European Agency for Safety and Health at Work (OSHA)

(<http://osha.europa.eu/en/topics/ds/oel/index.stm/members.stm>)

Source of law: EH40 (GB) (<http://www.hse.gov.uk>)

Recommended monitoring procedures:

Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents (BS EN 14042):

Room air monitoring

Exposure limits at intended use:

See under section 8.1 - Occupational exposure limit values.

DNEL-/PNEC-values:

There are no exposure scenarios attached in the Appendix of this Safety Data Sheet.

Risk management measures according to used control banding approach:

Control banding for chemicals according to the ILO CHEMICAL CONTROL TOOLKIT (ICCT): ICCT-Guidelines and Control Guidance Sheets (http://www.ilo.org/legacy/english/protection/safework/ctrl_banding/toolkit/main_guide.pdf)

Used model:

Consider appropriate model solutions according to good engineering practices on designing the working process, if available.

8.2. Exposure controls



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Appropriate engineering controls

Substance/mixture related measures to prevent exposure during identified uses:

Technical measures to prevent exposure:

Design of appropriate work processes and engineering controls and the use of adequate materials (physical cut-off of man and machine, model solutions as certified working methods, working appliance according to the state of the art, optimization of process / spray robots, working appliance for prevention of skin contact, models of working times).

Organisational measures to prevent exposure:

Execution of collective protection measures at source and appropriate organisational measures (local exhaust ventilation, ventilation by technical means, general ventilation, measures on averting a danger at breakdowns / at emergencies / after accidents, first-aid-measures, manner related measures: operating instruction / instruction of employees, occupational medicine health precaution).

Structural measures to prevent exposure:

Execution of individual and personnel protection measures (personal protective equipment - PPE).

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Technical measures and the application of suitable work processes have priority over personal protection equipment.

References for design of technical equipment:

See under section 7.1 - Precautions for safe handling.

Summary of the risk management measures for exposure scenario:

Use only the following product amount per time unit:

No information available.

Minimum room-width and room-height for handling/application:

No information available.

Minimum room ventilation rate for handling/application (air changes per hour):

No information available.

Individual protection measures, such as personal protective equipment**Eye/face protection**

If required according to hazard assessment:

Suitable eye protection:

Eye glasses with side protection (EN 166)

Recommended eye protection articles:

UVEX I-VO / UVEX I-3 / UVEX SUPER OTG

Or comparable articles from other companies.

Hand protection

Skin protection:

Preventive skin protection.:

Draw up skin protection programme.

Before starting work, apply solvent-resistant skincare preparations.

e.g. sansibal® / sansibon®, dualin® (PETER GREVEN PHYSIODERM)

Wash hands before breaks and after work.

e.g. ecosan®, topscrub® soft / topscrub® extra / topscrub® nature (PETER GREVEN PHYSIODERM)

After cleaning apply high-fat content skin care cream.

e.g. physioderm® creme, cura soft® / cUrea soft® (PETER GREVEN PHYSIODERM)

Apply skin care products after work.

If required according to hazard assessment:

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits.

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

Decrease wearing protection gloves to an inevitable degree to avoid skin rash.

Technical and organizational protective actions have to be preferred.

Breakthrough times and swelling properties of the material must be taken into consideration.

Check leak tightness/impermeability prior to use.

Wear cotton undermitten if possible.

Change preventive gloves once by hour or use special skin-protective preparations for protective gloves carrier,

e.g. physioderm® proGlove (PETER GREVEN PHYSIODERM)

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Take recovery periods for skin regeneration.

Do not wear gloves near rotary machines and tools.

Dispose preventive gloves after defect or expiry of wearing time.

Replace when worn.

In the case of wanting to use the gloves again, clean them before taking off and air them well.

Wearing time with permanent contact:

Suitable gloves type:

Gloves with long cuffs

Recommended glove articles:

Suitable materials at long term, direct contact (Recommended: Preventive index 6, accordingly > 480 min. permeation time in accordance to EN 374):

Nitrile rubber / NBR (KCL-CAMATRIL VELOURS® - Art. No. 730) - Layer thickness: 0,4 mm

Fluorine rubber / FKM / Viton (KCL-VITOJECT® - Art. No. 890) - Layer thickness: 0,7 mm

Or comparable articles from other companies.

Unsuitable material:

Butyl caoutchouc (butyl rubber)

NR (natural rubber, natural latex)

Wearing time with occasional contact (splashes):

Suitable gloves type:

Disposable gloves

Recommended glove articles:

Suitable materials at short term contact or splash (Recommended: Preventive index 3, accordingly > 60 min. permeation time in accordance to EN 374):

Disposable gloves of special nitrile rubber / NBR (KCL-DERMATRIL® P - Art. No. 743) - Layer thickness: 0,2 mm

Or comparable articles from other companies.

The statements are based on self-tests, literary reference and information of glove manufacturers or have been derived from similar substances by analogy.

Source: CHEMIKALIEN-MANAGER - KCL software for hand protection.

It has to be noticed, that daily time of use of chemical protective gloves may be quite shorter in practice because of many factors of influence (e.g. thermal and mechanical stress as well as special conditions on the floor) than the permeation time determined in accordance to EN 374.

The respective permeation time doubles/halves at about 1,5 times larger/lower layer thickness.

Declared permeation times according to EN 374 are not carried out under practical conditions.

Therefore a maximum wearing time up to 50 % of breakthrough time is recommended.

They relate to the pure solvent as mean component.

Barrier creams are not substitutes for body protection.

Skin protection

If required according to hazard assessment:

Suitable protective clothing:

Overall, Natural fibres (e.g. cotton) (EN 340)

For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes).

When handling with chemical substances, protective clothing with CE-labels including the four control digits must be worn.

DIN-/EN-Norms: DIN EN 468

Chemical protection clothing (Disposable suit antistatic)

Type 6 limited splash-tight

Type 5 Particle-tight (method B)

Type 4 Spray-tight

Recommended protective clothing articles:

TYVEK CLASSIC PLUS (DU PONT)

Or comparable articles from other companies.

Chemical resistant safety shoes with conductible sole (EN ISO 20345)

Wash contaminated clothing prior to re-use.

Used working clothes should not be worn outside the work area.

Street clothing should be stored separately from work clothing.

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Thermal hazards:

No thermal hazards during use of this product.

Respiratory protection

If required according to hazard assessment:

Respiratory protection necessary at:

aerosol or mist formation + exceeding exposure limit values +

high concentrations / prolonged exposure / insufficient ventilation / insufficient exhaust

Use only respiratory protection equipment with CE-symbol including four digit test number.

Filter types: A, B, E, K. Class 1: Maximum permitted contaminant concentration in inhaled air = 1000 mL/m³ (0.1 % by vol.); class 2: maximum permitted contaminant concentration in inhaled air = 5000 mL/m³ (0.5 % by vol.); class 3:maximum permitted contaminant concentration in inhaled air = 10000 mL/m³ (1.0 % by vol.)

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

The use of filter equipment requires a minimum oxygen content of 17 Vol-% in the surrounding atmosphere and that the maximum permitted gas concentration - normally 0,5 Vol-% - is not exceeded.

Suitable respiratory protection apparatus:

Half-face mask or quarter facepiece: maximum use concentration for substances with exposure limits: P1 filter: up to a max. of 4 times the exposure limit. P2 filter: up to a max. of 10 times the exposure limit. P3 filter: up to a max. of 30 times the expo.

Recommended respiratory protection articles:

Half mask or quarter mask with combination filter A1P1/A2P2 for gases, vapors and particles. (EN 140, EN 14387)

Filtering half mask or quarter mask with combination filter FFA1 P1/FFA2P2 for gases, vapors and particles. (EN 405)

Gas filtrating Half-face mask FFA (EN 405)

Model 4251 (FFA1P1 - 1000 ml/m³) / 4255 (FFA2P2SL - 5000 ml/m³) (3M)

Half-face mask or Quarter-face mask with gas filter (EN 140, EN 14387)

Filter type 6051 (A1 - 1000 ml/m³) / 6055 (A2 - 5000 ml/m³) (3M)

Full-face mask with gas filter (EN 136, EN 14387)

Gas filter type: A, Indication colour: brown

Or comparable articles from other companies.

Environmental exposure controls

Environmental exposure controls:

Technical measures to prevent exposure:

Discharge exhaust air only with suitable separators to atmosphere.

Organisational measures to prevent exposure:

Should not be released into the environment.

Structural measures to prevent exposure:

Use the following recovery and/or abatement technique for cleaning waste gases:

Exhaust air scrubber

Adsorption

Incineration

Further information see under section 6.2 - Environmental precautions.

9. Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state:	liquid		
Colour:	colourless		
Odour:	slight		Test method
pH-Value:		not applicable	
Changes in the physical state			
Melting point:		< - 20 °C	literature value
Boiling point or initial boiling point and boiling range:		> 200 °C	literature value

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Sublimation point:	not applicable	
Softening point:	not applicable	
Pour point:	not applicable	EN ISO 2719
Flash point:	77 °C	
Flammability		
Solid:	not applicable (Liquid)	
Gas:	not applicable (Liquid)	
Explosive properties		
Vapour/air-mixtures are explosive at intense warming.		
The statements for steam pressure, ignition point and explosion levels apply to the solvent / solvent mixture.		
Lower explosion limits:	0,45 vol. %	literature value
Upper explosion limits:	13,2 vol. %	literature value
Auto-ignition temperature:	> 370 °C	literature value
Self-ignition temperature		
Solid:	Not pyrophoric.	
Gas:	Not pyrophoric.	
Decomposition temperature:	Not determined	
Oxidizing properties		
not relevant		
Vapour pressure: (at 20 °C)	< 1 hPa	literature value
Vapour pressure: (at 50 °C)	< 6 hPa	literature value
Density (at 20 °C):	0,95 g/cm ³	DIN 51757
Bulk density:	not applicable (Liquid)	
Water solubility: (at 20 °C)	practically insoluble: < 0,1 g/L	literature value
Solubility in other solvents		
miscible with most organic solvents		
Partition coefficient n-octanol/water:	not applicable (Mixtures)	
Viscosity / dynamic:	not determined	
Viscosity / kinematic: (at 40 °C)	<= 20,5 mm ² /s	DIN 53015
Flow time: (at 23 °C)	< 30 s	3 DIN EN ISO 2431
Relative vapour density: (at 25 °C)	not determined	
Evaporation rate: (at 20 °C)	< 0.1 (n-butyl acetate=1)	ASTM D 3539
Solvent separation test:		
Solvent content:	not applicable	
	not determined	
9.2. Other information		
Solid content:	not determined	
Temperature class (DIN EN 60079-0): T 2 (T > +300 °C ... <= +450 °C)		
Limiting oxygen concentration (LOC) (DIN EN 14756): No data available		
Explosion group: IIB		
Maximum experimental safe gap (MESG) (IEC 60079-1-1): > 0,9 mm		
Minimum ignition current (MIC) (IEC 60079-11): No data available		
Minimum ignition energy (MIE) (DIN EN 13673-1): No data available		
Odour threshold: No data available		
Molecular weight: not determined		
Data apply to the main component.		
Conductivity (ASTM D 2624): not determined		
Surface tension: No data available		
Fat solubility (g/L): No data available		
Calculated oxidation potential of the mixture (OP): not relevant		
Substance group relevant properties:		
Explosives		
not applicable		
In use may form flammable/explosive vapour-air mixture.		
Flammable gases		
not applicable (Liquid)		
In use may form flammable/explosive vapour-air mixture.		

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Aerosols

not applicable (Liquid)

In use may form flammable/explosive vapour-air mixture.

Oxidising gases

Not oxidising.

Gases under pressure

not applicable (Liquid)

Flammable liquids

not applicable

flammable solids

not applicable (Liquid)

Self-reactive substances and mixtures

not applicable

Pyrophoric liquids

Not pyrophoric.

Pyrophoric solids

Not pyrophoric.

self-heating substances and mixtures

not applicable

Substances or mixtures which, in contact with water, emit flammable gases

not applicable

Oxidising liquids

Not oxidising.

Oxidising gases

Not oxidising.

Organic peroxides

not applicable

Corrosive to metals.

Not corrosive to metals.

10. Stability and reactivity**10.1. Reactivity**

Moisture-sensitive.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

Decomposition with:

Water

Humidity

10.4. Conditions to avoid

Heat, flames and sparks.

Avoid contact with water.

Further information see under section 7.2 - Conditions for safe storage, including any incompatibilities.

Further information see under section 10.5 - Incompatible materials.

10.5. Incompatible materials

Violent reaction with:

Oxidising agent, strong

Further information see under section 7.1 - Precautions for safe handling.

10.6. Hazardous decomposition products

Release of:

butylamine (Hydrolysis): See under section 8.1 - Occupational exposure limit values.

Under fire conditions: See under section 5.2 - Special hazards arising from the substance or mixture.

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11. Toxicological information**11.1. Information on toxicological effects****Toxicokinetics, metabolism and distribution**

There are no data available on the preparation/mixture itself.

The product has not been tested.

Information on likely routes of exposure /

Symptoms related to the physical, chemical and toxicological characteristics:

See under section 4.2 - Most important symptoms and effects, both acute and delayed.

Exposure route:

In case of ingestion:

Ingestion causes nausea, weakness and central nervous system effects.

In case of skin contact:

slightly irritant but not relevant for classification.

Prolonged or repeated skin contact may cause removal of natural fat from the skin resulting in dermatitis (skin inflammation).

In case of inhalation:

slightly irritant but not relevant for classification.

In case of eye contact:

slightly irritant but not relevant for classification.

Conjunctival redness.

Delayed and immediate effects as well as chronic effects from short and long-term exposure:

Not relevant

Interactive effects:

Not relevant

Absence of specific data:

No data is available on the product itself.

Description of possible hazardous to health effects is based on experience and/or toxicological characteristics of several components.

However, some data are not complete regarding particular main components.

Nevertheless according to the experience of the manufacturer there are no other hazards expected than those which are already mentioned on the label.

Mixture versus substance information:

Not relevant

Acute toxicity

Based on available data, the classification criteria are not met.

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
541-02-6	decamethylcyclopentasiloxane				
	oral	LD50 > 5000 mg/kg	Rat	ECHA	OECD 401
	dermal	LD50 > 2000 mg/kg	Rabbit	ECHA	OECD 402
	inhalation (4 h) aerosol	LC50 8,67 mg/l	Rat	Supplier / ECHA	OECD 403
540-97-6	dodecamethylcyclohexasiloxane				
	oral	LD50 > 2000 mg/kg	Rat	ECHA	OECD 423
	dermal	LD50 > 2000 mg/kg	Rat	ECHA	OECD 402

Irritation and corrosivity

Based on available data, the classification criteria are not met.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

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STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

12. Ecological information**12.1. Toxicity**

Aquatic toxicity:

Acute (short-term) fish toxicity:

There are no data available on the preparation/mixture itself.

The product has not been tested.

Acute (short-term) toxicity to crustacea:

There are no data available on the preparation/mixture itself.

The product has not been tested.

Acute (short-term) toxicity to aquatic algae and cyanobacteria:

There are no data available on the preparation/mixture itself.

The product has not been tested.

Chronic (long-term) toxicity to crustacea:

There are no data available on the preparation/mixture itself.

The product has not been tested.

Chronic (long-term) fish toxicity:

There are no data available on the preparation/mixture itself.

The product has not been tested.

Toxicity to other aquatic plants/organisms:

No data available (Substances/Ingredient)

Terrestrial toxicity:

Acute and subchronic bird toxicity:

No data available (Substances/Ingredient)

Bird reproduction toxicity:

No data available (Substances/Ingredient)

Acute earthworm toxicity:

No data available (Substances/Ingredient)

Chronical earthworm toxicity (reproduction):

No data available (Substances/Ingredient)

Useful insect toxicity:

No data available (Substances/Ingredient)

Acute plant toxicity:

No data available (Substances/Ingredient)

Chronic plant toxicity:

No data available (Substances/Ingredient)

Toxicity to soil macroorganisms except of arthropods:

No data available (Substances/Ingredient)

Effects on soil microorganisms:

No data available (Substances/Ingredient)

Behaviour in waste water treatment plants:

Due to its low solubility in water the product is almost completely mechanically separated in biological sewage plants.

Observe local regulations concerning effluent treatment.

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
541-02-6	decamethylcyclopentasiloxane					
	Acute fish toxicity	LC50 > 0,016 mg/l	96 h	Oncorhynchus mykiss	Supplier / ECHA	OECD 204
	Acute algae toxicity	ErC50 > 0,012 mg/l	96 h	Pseudokirchneriella subcapitata	Supplier / ECHA	OECD 201
	Acute crustacea toxicity	EC50 > 0,0029 mg/l	48 h	Daphnia magna	Supplier / ECHA	OECD 202
	Fish toxicity	NOEC 0,014 mg/l	90 d	Oncorhynchus mykiss	Supplier / ECHA	OECD 210
	Algae toxicity	NOEC 0,012 mg/l	4d	Pseudokirchneriella subcapitata	Supplier / ECHA	OECD 201
	Crustacea toxicity	NOEC 0,015 mg/l	21 d	Daphnia magna	Supplier / ECHA	OECD 211
	Acute bacteria toxicity	(> 2000 mg/l)	3h	Activated sludge	ECHA	EU Method C.11
540-97-6	dodecamethylcyclohexasiloxane					
	Acute algae toxicity	ErC50 > 0,002 mg/l	72 h	Pseudokirchneriella subcapitata	ECHA	OECD 201
	Fish toxicity	NOEC 0,014 mg/l	90 d	Oncorhynchus mykiss	ECHA	OECD 210
	Algae toxicity	NOEC 0,002 mg/l	3d	Pseudokirchneriella subcapitata	ECHA	OECD 201
	Crustacea toxicity	NOEC 0,0046 mg/l	21 d	Daphnia magna	ECHA	OECD 211
	Acute bacteria toxicity	(> 100 mg/l)	3h	Activated sludge	ECHA	OECD 209

12.2. Persistence and degradability

Abiotic degradation:

Physicochemical elimination:

Oxidation:

not applicable (Mixtures)

Hydrolysis:

not applicable (Mixtures)

Photochemical elimination:

Photolysis:

not applicable (Mixtures)

Ozonolysis:

not applicable (Mixtures)

Biodegradation:

not applicable (Mixtures)

Some of the components are poorly biodegradable.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
541-02-6	decamethylcyclopentasiloxane			
	OECD 310	0,14 %	28	Supplier / ECHA
	under test conditions no biodegradation observed			
540-97-6	dodecamethylcyclohexasiloxane			
	OECD 310	4,47 %	28	ECHA
	under test conditions little biodegradation			

12.3. Bioaccumulative potential

not applicable (Mixtures)

In water dissolved decamethylcyclopentasiloxane, dodecamethylcyclohexasiloxane accumulates in fishes under controlled conditions.

Existing measurement data suggest, however, that decamethylcyclopentasiloxane, dodecamethylcyclohexasiloxane in the environment, neither accumulates in the aquatic nor in the terrestrial food chain.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
541-02-6	decamethylcyclopentasiloxane	8,023
540-97-6	dodecamethylcyclohexasiloxane	8,87

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BCF

CAS No	Chemical name	BCF	Species	Source
541-02-6	decamethylcyclopentasiloxane	7060-13300	Pimephales promelas	ECHA
540-97-6	dodecamethylcyclohexasiloxane	1160-1660	Pimephales promelas	ECHA

12.4. Mobility in soil

Surface tension:

See under section 9.1 - Information on basic physical and chemical properties.

Distribution:

Water-air (volatility rate, Henry-constant):

not applicable (Mixtures)

The product is insoluble and floats on water.

The product evaporates slowly.

The information about ecology refers to the main components.

Soil-Water (Adsorption coefficient):

not applicable (Mixtures)

If product enters soil, it will be mobile and may contaminate groundwater.

The information about ecology refers to the main components.

Soil-Air (volatility rate):

not applicable (Mixtures)

The product evaporates slowly.

The information about ecology refers to the main components.

This product contains one or more hydrocarbon UVCB's.

Standard tests for this endpoint are intended for single substances and are not appropriate for this complex substance.

decamethylcyclopentasiloxane, dodecamethylcyclohexasiloxane has a very low water solubility, evaporates quickly and diffuses into organic material.

decamethylcyclopentasiloxane, dodecamethylcyclohexasiloxane is degraded in the atmosphere by reaction with hydroxyl radicals.

Out of the soil decamethylcyclopentasiloxane, dodecamethylcyclohexasiloxane will be eliminated by evaporation and hydrolysis, as well as by a degradation catalyzed by clay minerals.

12.5. Results of PBT and vPvB assessment

The mixture contains the following substances fulfilling the PBT-/vPvB criteria according to REACH Annex XIII:

decamethylcyclopentasiloxane (vPvB), dodecamethylcyclohexasiloxane (vPvB)

decamethylcyclopentasiloxane, dodecamethylcyclohexasiloxane meets the current criteria for PBT- or vPvB-substances according to Regulation (EC) No. 1907/2006 (REACH), Annex XIII.

However, decamethylcyclopentasiloxane, dodecamethylcyclohexasiloxane behaves not like well known PBT- or vPvB-substances.

Scientific field studies shows that decamethylcyclopentasiloxane, dodecamethylcyclohexasiloxane does not accumulate, neither in the aquatic nor in the terrestrial food chain.

In the air decamethylcyclopentasiloxane, dodecamethylcyclohexasiloxane will be degraded by the reaction with naturally existing hydroxyl radicals.

It is not expected that not eliminated decamethylcyclopentasiloxane, dodecamethylcyclohexasiloxane reaches from the air into the water, the soil or in living creatures.

12.6. Other adverse effects

Ozone depletion potential (ODP):

No data available (Substances/Ingredient)

Photochemical ozone creation potential (POCP):

No data available (Substances/Ingredient)

Global warming potential (GWP):

No data available (Substances/Ingredient)

Endocrine disrupting potential: No data available

AOX: Product does not contain any organic halogens.

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13. Disposal considerations**13.1. Waste treatment methods Disposal recommendations**

Waste treatment options:

Send to a hazardous waste incinerator facility under observation of official regulations.

Dispose of waste according to applicable legislation.

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

Properties of waste which render it hazardous:

none

Consult the appropriate local waste disposal expert about waste disposal.

For recycling, contact recycling exchanges.

May not be disposed or deposited together with domestic garbage.

Do not mix with other wastes.

Do not flush into surface water or sanitary sewer system.

Do not dispose of waste into sewer.

Before discharge in public drains (e.g. residues of washing- and rinsing liquids) please observe the relevant regulations.

In case of further questions please contact your waste- or environmental representative or the responsible authority.

Clean IBCs or drums at approved facility only.

The waste producer is responsible for correct coding and designation of his wastes.

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

List of proposed waste codes/waste designations in accordance with EWC:

List of Wastes Code - residues/unused products

070215 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of plastics, synthetic rubber and man-made fibres; wastes from additives other than those mentioned in 07 02 14

List of Wastes Code - used product

070215 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of plastics, synthetic rubber and man-made fibres; wastes from additives other than those mentioned in 07 02 14

List of Wastes Code - contaminated packaging

150106 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); mixed packaging

Contaminated packaging

Other disposal recommendations:

Contaminated packages must be completely emptied and can be re-used following proper cleaning.

Cleaning by recycling company.

Recommended cleansing agent:

Clean with detergents. Avoid solvent cleaners.

Handle contaminated packages in the same way as the substance itself.

Non-contaminated packages may be recycled.

Packing which cannot be properly cleaned must be disposed of.

As well uncleaned (empty) containers remain contaminated by product residues and may be hazardous by vapours.

They have to be disposed by specialists or have to be supplied to a licensed reconditioning.

The conditions of the regional reconditioning companies have to be observed.

14. Transport information**Land transport (ADR/RID)****Other applicable information (land transport)**

No dangerous good in sense of these transport regulations.

Inland waterways transport (ADN)**Other applicable information (inland waterways transport)**

Not classified for this transport way.

Marine transport (IMDG)**Other applicable information (marine transport)**

No dangerous good in sense of these transport regulations.

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Air transport (ICAO-TI/IATA-DGR)**Other applicable information (air transport)**

No dangerous good in sense of these transport regulations.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

not relevant

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

not relevant

Other applicable information

not relevant

15. Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Authorisations (REACH, annex XIV):

Substances of very high concern, SVHC (REACH, article 59):
decamethylcyclopentasiloxane; dodecamethylcyclohexasiloxane

Restrictions on use (REACH, annex XVII): Entry 70

2010/75/EU (VOC): 95 % (898 g/l)

Additional information

Authorisations and/or restrictions on use:

Authorisations:

Authorisation of Chemicals (REACH) as regards Annex XIV:

not relevant

Restrictions on use:

Restriction of chemicals (REACH) as regards annex XVII:

No. 70 - octamethylcyclotetrasiloxane (D4), decamethylcyclopentasiloxane (D5)

Informations on Regulation (EC) No. 1272/2008 - Annex VI, Part 1:

Note P is valid: The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7) (< 1 mg/kg - DIN 51405, ASTM D 4367).

Other regulations (EU):

Regulation (EC) No. 1005/2009 - Substances that deplete the ozone layer:

not relevant

Regulation (EC) No. 648/2004 and No 907/2006 - Detergents:

not relevant

Regulation (EC) No. 649/2012 - Export and import of dangerous chemicals:

not relevant

Regulation (EU) 2019/1021 - Persistent organic pollutants:

not relevant

Regulation (EC) No. 428/2009 and No. 388/2012 and No. 1382/2014 - Control of exports, or transfer, brokering and transit of dual-use goods (Dual-Use Regulation):

not relevant

Regulation (EC) No. 273/2004 - Drug precursors:

not relevant

Regulation (EC) No. 111/2005 - Definition of rules for the monitoring of trade in drug precursors between the Union and third countries:

not relevant

Directive 2012/18/EC - Control of major accident hazards involving dangerous substances (Seveso III):

not relevant

Directive 2004/42/EC - Use of organic solvents in certain paints and lacquers:

not relevant

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Directive 2010/75/EU - Industrial Emissions Directive (Directive IE) - succession to Directive 1999/13/EC - Limitation of emissions of volatile organic compounds (VOC-Directive):

When using this substance / mixture it has to be checked whether the activities are subject to the requirements of IERL, Chapter V (installations and activities with the use of organic solvents - VOC).

Aerosol directive (75/324/EEC):

not relevant

Biocide directive (98/8/EC):

not relevant

Regulation (EU) No. 528/2012 on biocides:

not relevant

Observe in addition any national regulations!

EC-Chemical inventories: All ingredients are listed in EINECS / ELINCS or excepted from listing.

National regulatory information

Employment restrictions:

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Additional information

Other regulations, restrictions and prohibition regulations:

European product inventories (Registration status on mixtures):

Kemikalieinspektionen / Produktregistret / Swedish Chemicals Inspectorate - Kemi (<http://www.kemi.se>):

This product was not registered.

Schweizerische Eidgenossenschaft - Bundesamt für Gesundheit - BAG (<http://www.bag.admin.ch>) / Anmeldestelle

Chemikalien (<http://www.cheminfo.ch>) / Informationssystem für gefährliche und umweltrelevante Stoffe - IGS

(<http://igs.naz.ch/index.html>): This product was not registered.

International chemical inventories (Registration status on substances): No data available

15.2. Chemical safety assessment

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

16. Other information**Abbreviations and acronyms**

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

ATE: Acute Toxicity Estimate.

CAS: Chemical Abstracts Service.

CEN: Comité Européen de Normalisation (European Committee for Standardisation).

CLP: Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008.

CMR: Carcinogen, Mutagen, or Reproductive Toxicant.

CSA: Chemical Safety Assessment.

CSR: Chemical Safety Report.

C&L: Classification & Labeling.

DNEL: Derived No-Effect Level.

DPD: Dangerous Preparations Directive 1999/45/EC.

DSD: Dangerous Substances Directive 67/548/EEC.

DU: Downstream User.

EAK: European Waste Catalogue (replaced by LoW – see below).

EC50: Effective concentration, 50 percent.

ECHA: European Chemicals Agency.

EC: European community.

EINECS: European Inventory of Existing Commercial Chemical Substances.

ELINCS: European List of Notified Chemical Substances.

EN: European standard.

EWC: European Economic Community.

EEA: European Economic Area (EU + Iceland, Liechtenstein and Norway).

EU: European Union.

FDA: US-Food and Drug Administration.

GES: Generic Exposure Scenario.

GHS: Globally Harmonized System of Classification and Labelling of Chemicals.

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HSPA: Hydrocarbon Solvents Producers Association.
 IATA-DGR: International Air Transport Association Dangerous Goods Regulations.
 IBC-Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk (International Bulk Chemical Code).
 IC50 / ErC50: Inhibitory concentration, 50 percent.
 ICAO-TI: International Civil Aviation Organization Technical Instruction.
 IMDG: International Maritime Dangerous Goods.
 IMSBC: International Maritime Solid Bulk Cargoes.
 ISO: A standard of International Standards Organisation.
 IUCLID: International Uniform Chemical Information Database.
 IUPAC: International Union for Pure and Applied Chemistry.
 LC50: Lethal concentration, 50 percent.
 LD50: Lethal Dose, 50 percent.
 LE: Legal Entity.
 log Kow (Pow): octanol-water partition coefficient.
 LoW: List of Wastes (see <http://ec.europa.eu/environment/waste/framework/list.htm>).
 LQ: Limited Quantities.
 LR: Lead Registrant.
 MARPOL: Maritime Pollution Convention (Convention for the Prevention of Pollution from Ships).
 OC: Operational Conditions.
 OECD: Organisation for Economic Co-operation and Development.
 OSHA: Occupational Safety and Health Agency.
 PBT: Persistent, bioaccumulabe and toxic.
 PEC: Predicted Effect Concentration.
 PNEC: Predicted No-Effect Concentration.
 PPE: Personal Protection Equipment.
 (Q)SAR: Quantitative-Structure-Activity-Relationship.
 REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals; Regulation (EC) No 1907/2006.
 RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.
 RMM: Risk Management Measure.
 STEL: Short time exposure limit.
 SVHC: Substances of Very High Concern.
 STOT - RE: Specific Target Organ Toxicity - Repeated Exposure.
 STOT - SE: Specific Target Organ Toxicity - Single Exposure.
 TWA: Time Weighted Average.
 UN: United Nations.
 UVCB: Substances of Unknown or Variable composition, Complex reaction products or Biological materials.
 vPvB: Very persistent and very bioaccumulable.
 WoE: Weight of Evidence.
 For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>

Relevant H and EUH statements (number and full text)

EUH210 Safety data sheet available on request.

Further Information

Key literature references and sources for data:

The classification corresponds to current EC-lists, but is completed by statements of technical literature and company data.

Other public accessible sources:

Regulation (EC) No. 1907/2006 (REACH) in the valid version in each case Regulation (EC) No. 1272/2008 (CLP) in the valid version in each case

Further information and practical guides on the internet:

European Chemicals Agency - ECHA (<http://echa.europa.eu>)

ECHA - Information on Chemicals (<http://echa.europa.eu/information-on-chemicals>)

ECHA - Candidate List of Substances of Very High Concern for Authorisation (<http://echa.europa.eu/de/candidate-list-table>)

ECHA - List of restrictions table (<http://echa.europa.eu/de/addressing-chemicals-of-concern/restrictions/list-of-restrictions/list-of-restrictions-table>)

ECHA - Authorisation List (<http://echa.europa.eu/hr/addressing-chemicals-of-concern/authorisation/recommendation-for-inclusion-in-the-authorisation-list>)

ECHA - C&L Inventory (<http://echa.europa.eu/en/web/guest/regulations/clp/cl-inventory>)

eChemPortal (<http://www.echemportal.org>)

The access to European Union law - EUR-Lex (<http://eur-lex.europa.eu>)

Health and Safety Executive (<http://www.hse.gov.uk>) / Control of Substances Hazardous to Health Regulations - COSHH

(<http://www.coshh-essentials.org.uk/Home.asp>)

Pollution Prevention and Control Act and Pollution Prevention and Control Regulations

Recommended restriction of application:

See under section 1.2 - Uses advised against.

Safety Data Sheet

According to Regulation EC No. 1907/2006

Semipermanentes Trennmittel – Lösemittel GP

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en / GB - Version 1.0

Training advice:

Yearly briefing and instruction of employees by means of operating instructions according to article 8 of EC-directive 98/24/EC.

The information of this MSDS is based on the present state of our knowledge and meets the requirements of EU and national laws. The user's working conditions however, are beyond our knowledge and control. The product is not to be used for purposes other than those specified under Section 1 without a written permission. It remains the responsibility of the user to ensure that the necessary steps are taken to meet the laws and regulations. Handling of the product may only be done by people above 18 years of age, who are satisfactorily informed of how to do the work, the hazardous properties and necessary safety precautions. The information given in this MSDS is to describe the product only in terms of health and safety requirements and should not, therefore, be construed as guaranteeing specific properties.