

STOPGAP Pen

Material Safety Data Sheet

Page 1/8

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

- Product name: hydrophobing agent
- Further trade name: STOPGAP PEN

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

Use of the substance/mixture: Waterproofing agent

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

- Regulation (EC) No. 1272/2008
- Asp. Tox 1; H304
- Full text of hazard statements: see section 16

2.2 Label elements

- Regulation (EC) No. 1272/2008
- Hazard components for labelling: hydrocarbons, C11-C14 isoalkanes, cyclene < 2% aromatics, C11-12 isoalkanes, C11-13 isoalkanes

- Signal word: Danger
- Pictograms
- Hazard statements: H304— May be fatal if swallowed and enters airways.
- Precautionary statements: P301+P310—IF SWALLOWED—Immediately call a POISON CENTER/doctor.
- P331—Do NOT induce vomiting.
- P405—Keep under lock and key.

2.3 Other hazards

Results of PBT and vPvB assessment: Section 12: Ecological information

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Chemical characterization:

- Mixture related information: Contains solvent

Hazardous Components: (See table)

Table 3.2 Hazardous Components

CAS No.	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No. 1272/2008			
	Hydrocarbons, C11-C14 isoalkanes, cyclene < 2 % aromatics			80 – <85 %
	927-285-2		01-2119480162-45	
	Asp. Tox. 1; H304			
34590-94-8	Dipropylene glycol monomethyl ether			5 – < 10 %
	252-104-2		01-2119450011-60	
	C11-12 isoalkanes			1 – < 5 %
	918-167-1		01-2119472146-39	
	Flam. Liq. 3, Asp. Tox. 1, Aquatic Chronic 4; H226 H304 H413			
	C11-13 isoalkanes			1 – < 5 %
	920-901-0		01-2119456810-40	
	Asp. Tox. 1; H304			

Full text of H and EUH statements: see section 16

Table 3.2 Specific Conc. Limits, M-factors and ATE

CAS No.	EC No.	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
	927-285-2	hydrocarbons, C11-C14 isoalkanes, cyclene, <2% aromatics	80 – <85 %
		inhalation: LC50 = >5000 mg/l (vapours); dermal: LD50 = >5000 mg/kg; oral: LD50 = >5000 mg/kg	80 – <85 %
34590-94-8	252-104-2	DIPROPYLENE GLYCOL METHYL ETHER	5 – < 10 %
		dermal: LD50 = 9510 mg/kg; oral: LD50 = >5000 mg/kg	

CLP identifier (UFI - unique formula identifier): U000-50S3-G009-UG8J



STOPGAP Pen

Material Safety Data Sheet

Page 2/8

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General information:

- Remove affected person from the danger area and lay down.
- First aider: Pay attention to self-protection!
- In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). If victim is at risk of losing consciousness, position and transport on their side. No administration in cases of unconsciousness or cramps.

After inhalation:

- Move victim to fresh air.
- Put victim at rest and keep warm.
- Get medical advice/attention.

After contact with skin:

- After contact with skin, wash immediately with plenty of water and soap.
- Remove contaminated, saturated clothing immediately.
- In case of skin irritation, seek medical treatment.

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.

After ingestion:

- Rinse mouth.
- Do NOT induce vomiting.
- Seek medical advice immediately

4.2 Most important symptoms and effects, both acute and delayed

May be fatal if swallowed and enters airways.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

- Suitable extinguishing media: carbon dioxide (CO₂), alcohol resistant foam, extinguishing powder, water spray
- Unsuitable extinguishing media: high power water jet

5.2 Special hazards arising from the substance or mixture

- Gases/vapours, flammable. Vapours can form explosive mixtures with air.
- Burning produces heavy smoke.
- In case of fire may be liberated: carbon dioxide (CO₂), carbon monoxide (CO), hydrogen fluoride (HF)

5.3 Advice for firefighters

- Wear a self-contained breathing apparatus and chemical protective clothing.
- Co-ordinate fire-fighting measures to the fire surroundings.

Additional information:

- Suppress gases/vapours/mists with water spray jet.
- Use water spray jet to protect personnel and to cool endangered containers.
- Contaminated fire-fighting water must be collected separately.
- Do not allow to enter into surface water or drains.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

General advice:

- Remove all sources of ignition.
- Provide adequate ventilation.
- Do not breathe vapour/aerosol.
- Avoid contact with skin, eyes and clothes.
- Wear personal protection equipment.

6.2 Environmental precautions

- Do not allow uncontrolled discharge of product into the environment. Danger of explosion.
- 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

Other information:

- Provide adequate ventilation.
- Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).
- Use only non-sparking tools.
- Take precautionary measures against static discharge.
- Treat the recovered material as prescribed in the section on waste disposal.

6.4 Reference to other sections

- Safe handling: see section 7
- Personal protection equipment: see section 8
- Disposal: see section 13

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling:

- Wear personal protection equipment. Wear anti-static footwear and clothing.
- Avoid contact with skin and eyes.
- Take off immediately all contaminated clothing.
- Do not breathe gas/fumes/vapour/spray.
- Provide adequate ventilation as well as local exhaustion at critical locations.
- When using do not eat, drink or smoke.
- Wash hands before breaks and after work.



STOPGAP Pen

Material Safety Data Sheet

Page 3/8

Advice on protection against fire and explosion:

- Combustible liquid. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
- No smoking.
- Use explosion-proof machinery, apparatus, ventilation facilities, tools etc.
- Take precautionary measures against static discharges.
- Provide earthing of containers, equipment, pumps and ventilation facilities.
- Use only antistatically equipped (spark-free) tools.)
- Vapours are heavier than air, spread along floors and form explosive mixtures with air.
- Ignitable mixtures may form in the emptied container.

Advice on general occupational hygiene:

- Do not breathe gas/vapour/aerosol.
- Wear personal protection equipment.
- Avoid contact with skin and eyes.
- Remove contaminated, saturated clothing immediately.
- Wash hands before breaks and after work.
- When using do not eat or drink.
- Set out skin protection guidelines.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels:

- Keep container tightly closed in a cool, well-ventilated place.
- Keep locked up.
- Store in a place accessible by authorized persons only.
- Floors should be impervious, resistant to liquids and easy to clean.
- Provide adequate ventilation as well as local exhaustion at critical locations.
- Remove all sources of ignition.

Hints on joint storage:

- Do not store together with: oxidising agent, pyrophoric or self-heating substances, acid, concentrated, Alkalis (alkalis), concentrated.
- Keep away from food, drink and animal feedingstuffs.

Further information on storage conditions:

- Keep only in the original container in a cool, well-ventilated place.
- Conditions to avoid: UV-radiation/sunlight, heat, contact with air/oxygen (Heating causes rise in pressure with risk of bursting.)

7.3 Specific end use(s)

- Waterproofing agent

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters (See table)

Additional advice on limit values:

- Dipropylene glycol methyl ether
- EU: 50 ppm, 308 mg/m³
- Austria: 50 ppm, 307 mg/m³
- Switzerland: 50 ppm, 300 mg/m³
- Hydrocarbons, aliphatic
- Germany: Technical rules for hazardous substances (TRGS 900), occupational exposure limit value (AGW):
- C9-C14 Aliphaten (RCP-Gruppe): 300 mg/m³, 2(II)

8.2 Exposure Controls

Appropriate engineering controls:

If handled uncovered, arrangements with local exhaust ventilation have to be used. If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means.

Individual protection measures, such as personal protective equipment:

Eye/face protection:

Tightly sealed safety glasses.

Hand protection:

- When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. (EN ISO 374).
- Recommended material: butyl rubber
- 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. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection:

- Wear anti-static footwear and clothing.
- Wearing of closed chemical resistant protective work clothing in addition to the personal protective equipment required.
- Wash contaminated clothing before reuse.
- Street clothing should be stored separately from work clothing.

Respiratory protection:

- In case of inadequate ventilation wear
- respiratory protection.
- Respiratory protection necessary at: aerosol or mist formation
- Combination filtering device: A-P2

Environmental exposure controls:

- Do not allow uncontrolled discharge of product into the environment.
- In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.



The mark of
responsible forestry

STOPGAP Pen

Material Safety Data Sheet

Page 4/8

Table 8.1 Occupational exposure limit values (TRGS 900):

CAS No.	Name of agent	ppm	mg/m ³	fibres/ml	Category	Origin
34590-94-8	(2-Methoxymethylethoxy) propanol (Isomer mixture)	50	310		TWA (8h)	

Table 8.1 DNEL/DMEL values:

CAS No.	Name of agent	Exposure route	Effect	Value
34590-94-8	Dipropylene glycol methyl ether			
	Worker DNEL, long-term	inhalation	systemic	308mg/m ³
	Worker DNEL, long-term	dermal	systemic	65mg/kg bw/day
	Consumer DNEL, long-term	inhalation	systemic	37,2 mg/m ³
	Consumer DNEL, long-term	dermal	systemic	15mg/kg bw/day

Table 8.1 PNEC values:

CAS No.	Name of agent	Value
	Environmental compartment	
34590-94-8	Dipropylene glycol methyl ether	
	Freshwater	19mg/l
	Marine water	1,9mg/l
	Freshwater sediment	70,2mg/kg
	Marine sediment	7,02mg/kg
	Micro-organisms in sewage treatment plants (STP)	4168mg/l
	Soil	2,74 mg/kg

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

- Physical state: liquid
- Colour: colourless
- Odour: like: solvent

9.2 Other information

Information with regard to physical hazard classes:
Explosive properties: Vapours are heavier than air, spread along floors and form explosive mixtures with air.

Other safety characteristics:

- Evaporation rate: not determined
- Solid content: not determined

Table 9.1. Information on basic physical and chemical properties

		Test method
Boiling point or initial boiling point and boiling range:	>100 °C	estimated
Lower explosion limits:	0,6 vol. %	estimated
Upper explosion limits:	14 vol. %	estimated
Flash point:	64 °C	estimated
Auto-ignition temperature:	>200 °C	estimated
Decomposition temperature:	not determined	
Viscosity/ kinematic (at 40 °C):	not determined	
Water solubility:	partially soluble	
Partition coefficient n-octanol/water:	not determined	
Vapour pressure (at 20 °C):	not determined	
Density (at 20 °C):	0,8 g/cm ³	
Relative vapour density:	not determined	



STOPGAP Pen

Material Safety Data Sheet

Page 5/8

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No information available.

10.2 Chemical stability

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

10.3 Possibility of hazardous reactions

Flammable. Vapours are heavier than air, spread along floors and form explosive mixtures with air. Re-ignition possible over considerable distance.

10.4 Conditions to avoid

- Heat, sparks, flames
- UV-radiation/sunlight
- Electrostatic charges

10.5 Incompatible materials

Oxidizing agents; alkalis (alkalis), concentrated; acid, concentrated; peroxide

10.6 Hazardous decomposition products

- Gases/vapours, toxic
- Carbon monoxide

SECTION 11: TOXICOLOGICAL INFORMATION

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

Toxicokinetics, metabolism and distribution:

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

Acute Toxicity:

Based on available data, classification criteria are not met.

Irritation and corrosivity:

Based on available data, classification criteria are not met.

Sensitising effects:

Based on available data, classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction:

Based on available data, classification criteria are not met.

STOT-single exposure:

Based on available data, classification criteria are not met.

STOT-repeated exposure:

Based on available data, classification criteria are not met.

Aspiration hazard:

May be fatal if swallowed and enters airways.

Additional information on tests:

This mixture is classified as hazardous according to regulation (EC) No. 1272/2008 [CLP].

11.2 Information on other hazards

Endocrine disrupting properties:

No information available.

Table 11.1 Acute Toxicity:

CAS No.	Chemical name				
	Exposure route	Dose	Species	Source	Method
	Hydrocarbons, C11-C14 isoalkanes, cyclene < 2% aromatics				
	ORAL	LD50 >5000 mg/kg	Rat		
	DERMAL	LD50 >5000 mg/kg	Rabbit		
	INHALATION (4H) VAPOUR	LC50 >5000 mg/l	Rat		
34590-94-8	Dipropylene glycol monomethyl ether				
	ORAL	LD50 >5000 mg/kg	Rat		OECD 401
	DERMAL	LD50 9510 mg/kg	Rabbit		OECD 402



STOPGAP Pen

Material Safety Data Sheet

Page 6/8

SECTION 12: ECOLOGICAL INFORMATION

- 12.1 Toxicity** (See table)
Based on available data, classification criteria are not met.
- 12.2 Persistence and degradability** (See table)
The product has not been tested. CAS No Chemical name
- 12.3 Bioaccumulative potential**
The product has not been tested.
- 12.4 Mobility in soil**
The product has not been tested.
- 12.5 Results of PBT and vPvB assessment**
The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.
- 12.6 Endocrine disrupting properties**
This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.
- 12.7 Other adverse effects**
No information available.
Further information:
- Do not allow to enter into surface water or drains.
 - Do not allow to enter into soil/ subsoil.

SECTION 13: DISPOSAL CONSIDERATIONS

- 13.1 Waste treatment methods**
Disposal recommendations:
- Do not allow to enter into surface water or drains.
 - Dispose of waste according to applicable legislation.
- CH:
- VeVA-Code: 080312 S waste ink containing dangerous substances
 - The waste key number should be determined in consultation with the consumer, the manufacturer and the disposal company. Also observe local official regulations:
 - SR 814.610 Ordinance on the Movement of Waste (VeVA)
 - SR 814.600 Ordinance on the Avoidance and the Disposal of Waste (Waste Ordinance, ADWO)
 - SR 814.610.1 DETEC Ordinance on Lists for Movement of Waste
- List of Wastes Codes—residues/unused products:**
080312: Wastes from the manufacture, formulation, supply and use (MFSU) of coatings (paints, varnishes and vitreous enamels), adhesives, sealants and printing inks; wastes from MFSU of printing inks; waste ink containing hazardous substances; hazardous waste
- Contaminated packaging:**
- Non-contaminated packages may be recycled.
 - Handle contaminated packages in the same way as the substance itself.

Table 12.1 Toxicity
Based on available data, the classification criteria are not met.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
34590-94-8	Dipropylene glycol monomethyl ether					
	Acute fish toxicity	LC50 10000 mg/l	96 h	Pimephales promelas (fathead minnow)		
	Acute algae toxicity	ErC50 969 mg/l	96 h	Pseudokirchneriella subcapitata		OECD 201
	Acute crustacea toxicity	EC50 1919 mg/l	48 h	Daphnia magna (Big water flea)		OECD 202
	Algae toxicity	NOEC >969 mg/l	4 d	Pseudokirchneriella subcapitata		OECD 201

Table 12.2 Persistence and degradability
The product has not been tested.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
34590-94-8	Dipropylene glycol monomethyl ether			
	Biodegradable. DOC reduction, OECD 301F	96%	28	
	Readily biodegradable (according to OECD criteria)			



STOPGAP Pen

Material Safety Data Sheet

Page 7/8

SECTION 14: TRANSPORT INFORMATION

Land transport (ADR/RID):

- 14.1 UN number**
No dangerous good in sense of this transport regulation.
- 14.2 UN proper shipping name**
No dangerous good in sense of this transport regulation.
- 14.3 Transport hazard class(es)**
No dangerous good in sense of this transport regulation.
- 14.4 Packaging group**
No dangerous good in sense of this transport regulation.

Marine transport (IMDG):

- 14.1 UN number**
No dangerous good in sense of this transport regulation.
- 14.2 UN proper shipping name**
No dangerous good in sense of this transport regulation.
- 14.3 Transport hazard class(es)**
No dangerous good in sense of this transport regulation.
- 14.4 Packaging group**
No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR):

- 14.1 UN number**
No dangerous good in sense of this transport regulation.
- 14.2 UN proper shipping name**
No dangerous good in sense of this transport regulation.
- 14.3 Transport hazard class(es)**
No dangerous good in sense of this transport regulation.
- 14.4 Packaging group**
No dangerous good in sense of this transport regulation.
- 14.5 Environmental hazards**
ENVIRONMENTALLY HAZARDOUS: No
- 14.6 Special precautions for user**
No information available.
- 14.7 Maritime transport in bulk according to IMO instruments**
Not applicable.

Other applicable information

- 14.1, 14.2, 14.3 and 14.4 not applicable.
- No dangerous good in sense of these transport regulations: Land transport (ADR/RID), Sea transport (IMDG),
- Air transport (ICAO-TI/IATA-DGR).

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/ legislation specific for the substance or mixture EU regulatory information:

- Restrictions on use (REACH, annex XVII):
Entry 3, Entry 40
- 2010/75/EU (VOC): 98 %
- 2004/42/EC (VOC): 98 %

National regulatory information:

- Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).
- Water hazard class (D): 1 - slightly hazardous to water

Additional information

CH:

- SR 814.018:
Ordinance on the incentive tax on volatile organic compounds (VOCV): VOC content: 98 %
- SR 822.115:
Youth Employment Protection Ordinance (ArGV 5): Article 4 paragraph 4 of the Youth Work Protection Ordinance (SR 822.115) and Article 1 lit. f of the Ordinance of the WBF on Hazardous Work for Young People (SR 822.115.2): Adolescents in basic vocational training may only work with this product (this substance /this preparation) if this is provided for in the respective training ordinance to achieve their training objective, the requirements of the training plan are met and the applicable age restrictions are observed. Young people who do not complete basic vocational training may not work with this product (this substance/this preparation). Young people are considered to be employees of both sexes up to the age of 18.

Article 13 Maternity Protection Ordinance (SR 822.111.52): Pregnant women and nursing mothers may only come into contact with this product (this substance / this preparation) during their work if it is established on the basis of a risk assessment in accordance with Art. 63 ArGV 1 (SR 822.111) that there is no specific health risk to the mother and child or that this can be ruled out by taking suitable protective measures.

15.2 Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out: Dipropylene glycol monomethyl ether



The mark of responsible forestry

STOPGAP Pen

Material Safety Data Sheet

Page 8/8

SECTION 16: OTHER INFORMATION

Abbreviations and acronyms:

- ADR: Accord européen sur le transport des marchandises dangereuses par Route
- (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- GHS: Globally Harmonized System of Classification and Labelling of Chemicals
- OECD: Organisation for Economic Cooperation and Development
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service
- LC50: Lethal concentration, 50%
- LL50: Lethal Load 50
- LD50: Lethal dose, 50%
- EC50: median effective concentration
- EL50: effective loading rate lethal to 50% of the test population
- ATE: acute toxicity estimates
- DNEL: derived no-effect level
- PNEC: predicted no effect concentration
- PBT: Persistent, bioaccumulative, toxic
- vPvB: very persistent, very bioaccumulative
- NOAEL: no observed adverse effect level
- LOAEL: Lowest Observed Adverse Effect Level

Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

Classification	Classification procedure
Asp. Tox. 1; H304	Calculation method

Relevant H and EUH statements (number and full text):

- H226 Flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H413 May cause long lasting harmful effects to aquatic life.

Further Information:

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

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material. (The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)



The mark of
responsible forestry