

Safety Data Sheet

In accordance with Regulation (EC) No. 1907/2006 and 453/2010

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

1.1. Product identifier

Trade name: SVM-PSC / Stahl Power Hit SVM Polyester with styrene

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

Chemical anchoring system for building industry

1.3. Details of the supplier of the safety data sheet

STAHL GmbHLutherstraße 54
73614 Schorndorf
Germany

Telephone number (Fax)

+49 7181 97772-0 +49 7181 97772-22

E-mail address of competent person
responsible for the SDSinfo@stahl-chempower.de**1.4. Emergency telephone number :** 0048 661 970 365 (Monday-Friday: 8.00-16.00, English)

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Commission Regulation (EC) No. 1272/2008:

| | | |
|-----------------|------|---------------------------------------------------------------------------------------|
| Org. Perox. E | H242 | Heating may cause a fire |
| Flam. Liq. 3 | H226 | Flammable liquid and vapour |
| Skin Sens. 1 | H317 | May cause an allergic skin reaction |
| Skin Irrit. 2 | H315 | Causes skin irritation |
| Eye Irrit. 2 | H319 | Causes serious eye irritation |
| STOT RE 1 | H372 | Causes damage to organs (hearing) through prolonged or repeated exposure (inhalation) |
| Aquatic Acute 1 | H400 | Very toxic to aquatic life |

2.2. Label elements

GHS pictograms:

Signal word: **Danger**Hazard statements:

| | |
|------|---------------------------------------------------------------------------------------|
| H242 | Heating may cause a fire |
| H226 | Flammable liquid and vapour |
| H317 | May cause an allergic skin reaction |
| H315 | Causes skin irritation |
| H319 | Causes serious eye irritation |
| H372 | Causes damage to organs (hearing) through prolonged or repeated exposure (inhalation) |
| H400 | Very toxic to aquatic life |

EUH208 Contains dibenzoyl peroxide. May produce an allergic reaction.

Precautionary statements:

Prevention:

P273 Avoid release to the environment
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection

Response:

P302+P352 IF ON SKIN: Wash with plenty of soap and water.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
 P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Storage: -

Disposal: -

Dangerous substances: Dibenzoyl peroxide
 Styrene

2.3. Other hazards This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Section 3: : Composition/information on ingredients

3.1. Substances Not applicable

3.2. Mixtures

| Product identifiers | Ingredient name | Content (% wt.) | Classification |
|-----------------------------------------------------------------|----------------------------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------|
| | | | (EC) 1272/2008 [CLP] |
| Component A | | | |
| Index number: 601-026-00-0 CAS: 100-42-5 WE: 202-851-5 | Styrene | < 13,4 | Flam. Liq. 3, H226, STOS SE 3 H335, STOT RE 1 H372, Eye Irrit. 2 H319, Acute Tox. 4 H332, Skin Irrit. 2 H315, Asp. Tox. 1 H304 |
| CAS: 38668-48-3 WE:254-075-1 | 1,1'-(p-tolylimino)dipropan-2-ol | < 0,17 | Acute Tox. 2, H300; Eye Dam. 1, H318; Aquatic Chronic 3, H412 |
| CAS: 68131-39-5 WE: 500-195-7 | Alcohols, C12-15, ethoxylated | <0,3 | Acute Tox. 4, H302; Aquatic Acute 1, H400; Aquatic Chronic 1, H410 |
| Component B | | | |
| Index number: 617-008-00-0 WE: 202-327-6 CAS: 94-36-0 | Dibenzoyl peroxide | 15-20 | Org. Perox. B, H241; Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Acute 1, H400 |
| Index number: 603-027-00-1 WE: 203-473-3 CAS: 107-21-1 | Ethylene glycol | < 10 | Acute Tox. 4, H302; STOT RE 2, H373 |

Additional information: For the wording of the listed phrases refer to section 16.

Section 4: First aid measures

4.1. Description of first aid measures

General notes: Remove/Take off immediately all contaminated clothing.

- Following inhalation: Move the exposed individual to the fresh air and keep at rest in a position comfortable for breathing. If not breathing, breathing is irregular or respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. If unconscious, place in recovery position and get medical attention immediately. Contact toxicology center.
- Following skin contact: Wash with plenty of soap and water for at least 10 minutes. Remove contaminated clothing and shoes. In case irritation or any complaints occur, get medical attention and avoid further exposure.
- Following eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Check for and remove any contact lenses. Get medical attention.
- Following ingestion: Wash out mouth with water. Move the exposed individual to the fresh air and keep at rest in position comfortable for breathing. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low, so that the vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Loosen tight clothing (e.g. tie, belt). Get medical attention.

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

Product can cause irritation to eyes, skin and respiratory system. It can also lead to skin sensitization. After exposure, symptoms can be delayed. Contact with eyes can result in eye erythema and excessive lacrimation. Exposure of inhalation routes can cause coughing. Prolonged exposure of skin can cause erythema. Lack of data on symptoms occurring after ingestion.

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

In case of inhalation of decomposition products, symptoms may be delayed. Exposed individual may need to be kept under medical surveillance for 48 hours.

Section 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Use dry chemical (ABC powder) or CO₂, optionally spray mist water.

Unsuitable extinguishing media: Unknown

5.2. Special hazards arising from the substance or mixture

In case of exposition on an open flame, a pressure rise and a packaging may explode. Moreover, hazardous decomposition products can arise: e.g. carbon oxides, unidentified hydrocarbons.

5.3. Advice for firefighters

Use full protective clothing compliant with EN 469 standard. Wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face piece operated in positive pressure mode. Product containers exposed to heat cool with water.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:

No action involving any health risk shall be taken through contact with product. Avoid contact with product without personal protective equipment, in case of contact with large product or ventilation is insufficient. Avoid breathing vapours.

For emergency responders:

Disposal of product spillage should be taken only if personal protective equipment

described in section 8 is available.

6.2. Environmental precautions

Avoid dispersal of spilled material and its contact with soil, sewers, surface and ground water. Inform the relevant authorities if the product has caused environmental pollution.

6.3. Methods and material for containment and cleaning up

Secure drains and sewers. Collect product mechanically (e.g. with shovel) together with contaminated soil. Possible spillages absorb with inert, absorbent material (e.g. sand, earth, diatomaceous earth) and place in an appropriate waste disposal container according to local regulations. For further information see section 13

6.4. Reference to other sections

See section 8 for information on appropriate personal protective equipment.
See section 13 for additional waste treatment information.

Section 7: Handling and storage

7.1. Precautions for safe handling

Put on an appropriate personal protective equipment (see section 8). Persons with a history of skin sensitization problems should avoid contact with product. Do not allow product to contact eyes or skin. Avoid breathing vapours released during curing process. Use only in places with sufficient ventilation. Wear appropriate respirator when ventilation is inadequate. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Follow the manufacturer's instructions for use of product. Keep product in the original container. Do not use product after the expiration date.

7.2. Conditions for safe storage, including any incompatibilities

Store in original container, keep tightly closed when not in use. Protect from direct sunlight and other heat sources in dry, well-ventilated area, away from incompatible materials, food and drink. Store at 5– 25 °C. To ensure product stability avoid temperature fluctuation during storage (overheating and undercooling).

7.3. Specific end use(s) See Section 1

Section 8: Exposure controls/personal protection

8.1. Control parameters

| Ingredient name | Long-term exposure | | Short-term exposure | | Comments |
|-------------------------------------------|--------------------|-----|---------------------|-----|-------------------|
| | mg/m ³ | ppm | mg/m ³ | ppm | |
| <u>Dibenzoyl peroxide:</u> | | | | | |
| Austria/Denmark | 5 | - | 10 | - | Inhalable aerosol |
| Belgium/France/USA (NIOSH)/United Kingdom | 5 | - | - | - | - |
| Germany/Hungary/Switzerland | 5 | - | 5 | - | Inhalable aerosol |
| <u>Ethylene glycol (vapour)</u> | | | | | |
| Austria/Denmark/Germany/Switzerland | 26 | 10 | 52 | 20 | - |
| France/Ireland/United Kingdom | 52 | 20 | 104 | 40 | - |
| Sweden | 25 | 10 | 50 | 20 | - |
| <u>Ethylene glycol (particulate):</u> | | | | | |
| Belgium/Latvia | 52 | 20 | 104 | 40 | - |
| Germany/Switzerland | 26 | 10 | 52 | 20 | - |

| | | | | | |
|---------------------|-----|-----|------|-----|---|
| Hungary | 10 | - | 104 | - | - |
| Sweden | 25 | 10 | 50 | 20 | - |
| United Kingdom | 10 | - | - | - | - |
| <u>Styrene:</u> | | | | | |
| Austria | 85 | 20 | 340 | 80 | - |
| Belgium | 216 | 50 | 432 | 100 | - |
| Denmark | 105 | 25 | 105 | 25 | - |
| France | 215 | 50 | - | - | - |
| Germany/Spain | 86 | 20 | 172 | 40 | - |
| Hungary | 50 | - | 50 | - | - |
| Ireland/Switzerland | 85 | 20 | 170 | 40 | - |
| Latvia | 10 | - | 30 | - | - |
| Sweden | 43 | 10 | 86 | 20 | - |
| United Kingdom | 430 | 100 | 1080 | 250 | - |
| USA (NIOSH) | 215 | 50 | 425 | 100 | - |

DN(M)ELs

| Ingredient name | Route of exposure | Value | Group | Effect |
|--------------------|----------------------------------|--------------------------|---------------------|------------------------|
| Dibenzoyl peroxide | Oral | 1,65 mg/kg | Consumers | Systematic, long-term |
| | Dermal | 3,3 mg/kg | Consumers | Systematic, long-term |
| | Inhalation | 6,6 mg/kg | Workers | Systematic, long-term |
| | | 2,9 mg/m ³ | Consumers | Systematic, long-term |
| | | 11,75 mg/m ³ | Workers | Systematic, long-term |
| Styrene | Inhalation | 85 mg/m ³ | Workers | Systematic, long-term |
| | | 289 mg/m ³ | Workers | Systematic, short-term |
| | | 306 mg/m ³ | Workers | Local, short-term |
| | | 10,2 mg/m ³ | Consumers | Systematic, long-term |
| | | 174,25 mg/m ³ | Consumers | Systematic, short-term |
| | Dermal | 182,75 mg/m ³ | Consumers | Local, short-term |
| | | 406 mg/kg | Workers | Systematic, long-term |
| | | 343 mg/kg | Consumers | Systematic, long-term |
| | Oral | 2,1 mg/kg | Consumers | Systematic, long-term |
| | 1,1'-(p-tolylimino)dipropan-2-ol | Dermal | 2 mg/m ³ | Workers |
| Inhalation | | 0,4 mg/m ³ | Consumers | Systematic, long-term |
| | | 0,6 mg/kg | Workers | Systematic, long-term |
| | | 0,3 mg/kg | Consumers | Systematic, long-term |
| Ethylene glycol | Dermal | 0,3 mg/kg | Consumers | Systematic, long-term |
| | | 53 mg/kg | Consumers | Systematic, long-term |
| | Inhalation | 106 mg/kg | Workers | Systematic, long-term |
| | | 35 mg/m ³ | Workers | Local, long-term |
| | | 7 mg/m ³ | Consumers | Local, short-term |

PNECs

| | Environmental protection target | Value |
|--------------------|---------------------------------|--------------|
| Dibenzoyl peroxide | Fresh water | 0,602 µg/l |
| | Marine water | 0,0602 µg/l |
| | Intermittent releases | 0,602 µg/l |
| | Freshwater sediments | 0,338 mg/kg |
| | Marine water sediments | 0,0338 mg/kg |
| | STP | 0,35 mg/l |
| | Soil | 0,0758 mg/kg |
| Styrene | Fresh water | 0,028 mg/l |

| | | |
|----------------------------------|------------------------|---------------|
| | Marine water | 0,014 mg/l |
| | Intermittent releases | 0,04 mg/l |
| | Freshwater sediments | 0,614 mg/kg |
| | Marine water sediments | 0,307 mg/kg |
| | STP | 5 mg/l |
| | Soil | 0,2 mg/kg |
| 1,1'-(p-tolylimino)dipropan-2-ol | Fresh water | 0,017 mg/l |
| | Marine water | 0,0017 mg/l |
| | Intermittent releases | 0,17 mg/l |
| | Freshwater sediments | 0,0782 mg/kg |
| | Marine water sediments | 0,00782 mg/kg |
| | STP | 199,5 mg/l |
| | Soil | 0,005 mg/kg |

8.2. Exposure controls

Appropriate engineering controls: Ensure sufficient ventilation in working place. In case of insufficient ventilation use appropriate engineering controls (e.g. local fume hood) which will keep exposure level below recommended threshold, or use appropriate breathing apparatus.

Individual protective measures:

General recommendation: Obey hygiene rules: do not eat, drink, or smoke at workplace. Wash your hands with soap and water after you finish working with product. Avoid contamination of your clothes. Contaminated clothes wash before use.

Eye/face protection: Use safety glasses with side shields.

Hand protection: Use chemical resistant gloves standard when working with the product. It is advised to use butyl or nitrile rubber gloves.

Skin and body protection: Use protective clothes.

Respiratory protection: At concentrations causing irritation use mask, filter type: A – against organic gases and vapours.

Remarks: Advice on personal protection is applicable for high exposure levels. Select proper personal protection based on a risk assessment of the actual situation. Personal protective equipment must meet requirements of directive 89/686/CE.

Environmental exposure controls:

Do not allow to contaminate soil, sewage and surface/ ground water. If the product contaminates waterways and drains, alert the relevant authorities.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|------------------------------------------|-------------------------------------------------|
| Appearance: | paste |
| Color: | Component A – light yellow, Component B – black |
| Odour: | Characteristic, styrene-like |
| Odour threshold: | Not determined |
| pH: | Not determined |
| Melting point / freezing point: | Not applicable |
| Initial boiling point and boiling range: | component B – dibenzoyl peroxide: 197°C |

| | |
|----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Flash point: | Component A: 40°C (PN-EN ISO 3679:2007) |
| Evaporation rate: | Not determined |
| Flammability (solid, gas): | Flammable |
| Upper/lower flammability or explosive limits: | Component B: UEL = 53,0% by vol.; LEL: 3,2% by vol. |
| Vapour pressure: | Not determined |
| Relative density: | Component A: 1,60 ± 0,05 g/cm ³ , Component B: 1,21 ± 0,05 g/cm ³ (PN-EN 542:2005) |
| Solubility: | Insoluble in water, partly soluble in acetone and isopropyl alcohol |
| Partition coefficient n-octanol/water: | Not determined |
| Auto-ignition temperature: | Not determined |
| Decomposition temperature: | Component A: no data Component B: SADT = 50°C |
| Dynamic viscosity (23 ⁰ C; 100 [s ⁻¹]): | Component A: 7,0 ± 1,0 [Pa·s] Component B: 8,5 ± 1,0 [Pa·s] (EN ISO 3219:2000) |
| Explosive properties: | Not determined |
| Oxidizing properties: | Component A: not applicable Component B: oxidizing properties |

9.2. Other information No additional data

Section 10: Stability and reactivity

10.1. Reactivity

No specific data available

10.2. Chemical stability

Product is stable under normal storage conditions (temp. 5 - 25⁰C). In case of change of apparent consistency or presence of significant air amounts in components, it is advised to interrupt work with product and consult producer.

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored under normal conditions of use.

10.4. Conditions to avoid

To avoid thermal degradation of product do not allow to overheat it over the temperature of recommended storage. Protect from sunlight. Overheating of B component over SADT temperature (Self Accelerating Decomposition Temperature, see section 9.1) can cause spontaneous decomposition of the substances in the packaging during transport.

10.5. Incompatible materials

No specific data

10.6. Hazardous decomposition products

Unidentified hydrocarbons, carbon oxides.

Section 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Based on available data, the classification criteria are not met

| Ingredient name | Route of exposure | Species | Result |
|----------------------------------|---------------------------|---------|-------------|
| Styrene | LD ₅₀ (oral) | rat | 5000 mg/kg |
| | LD ₅₀ (dermal) | | >2000 mg/kg |
| Dibenzoyl peroxide | LD ₅₀ (oral) | rat | >5000 mg/kg |
| 1,1'-(p-tolylimino)dipropan-2-ol | LD ₅₀ (oral) | rat | 27,5 mg/kg |

Irritation / Corrosivity

Product causes serious eye and skin irritation (based on available data for ingredients the product)

Sensitisation

Product causes skin sensitisation (based on available data for ingredients the product)

| Ingredient name | Test | Species | Results | Effects |
|--------------------|------|---------|---------|--------------|
| Dibenzoyl peroxide | LLNA | mouse | SI > 3 | Skin Sens. 1 |

Repeated dose toxicity

Product causes damage to organs (hearing) through prolonged or repeated exposure (inhalation)

CMR

No specific data

Information on likely routes of exposure:

| | |
|---------------|-------------------------------------|
| Inhalation | Irritating to respiratory system |
| Skin exposure | Irritating. May cause sensitization |
| Eye exposure | Irritating to eyes |
| Ingestion | Irritates mouth, throat and stomach |

Symptoms related to the physical, chemical and toxicological characteristics:

| | |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Inhalation: | Vapours released during curing process may cause respiratory tract irritation, coughing, nausea and dizziness. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure. |
| Skin exposure: | Irritation and redness. May cause sensitization by skin contact. Skin reaction may be delayed in time. |
| Eye exposure: | pain, lacrimation, irritation and redness |
| Ingestion: | No specific data |

Section 12: Ecological information

12.1. Toxicity

| Ingredient name | Dose / time of exposure / method | Species | Results |
|----------------------------------|-------------------------------------------------|---------------------------------------|-------------|
| Styrene | LC ₅₀ /96d | <i>Pimephales promelas</i> | 4,02 mg/L |
| | LC ₅₀ /21d/ OECD 211 | <i>Daphnia magna</i> | >3,84 mg/L |
| | EC ₅₀ /96h / EPA OTS 797.1050 | <i>Pseudokirchnerella subcapitata</i> | 6,3 mg/L |
| Dibenzoyl peroxide | LC ₅₀ / 96h / OECD 203 | <i>Oncorhynchus mykiss</i> | 0,0602 mg/L |
| | EC ₅₀ / 48h / OECD 202 | <i>Daphnia magna</i> | 0,110 mg/L |
| | EC ₅₀ (growth rate) / 72h / OECD 201 | <i>Pseudokirchnerella subcapitata</i> | 0,0711 mg/L |
| 1,1'-(p-tolylimino)dipropan-2-ol | LC ₅₀ / 96h / F.1.1 of UBA | <i>Danio rerio</i> | 17 mg/L |
| | EC ₅₀ / 48h / OECD 202 | <i>Daphnia magna</i> | 28,8 mg/L |
| | EC ₅₀ (growth rate) / 72h / OECD 201 | <i>Desmodesmus subspicatus</i> | 245 mg/L |

| | | | |
|-----------------|-----------------------------------------------------------------|----------------------------------------------------|--------------------------|
| Ethylene glycol | LC ₅₀ /96h / bd EC ₅₀ / 48h / OECD 202 | <i>Pimephales promelas</i> <i>Daphnia magna</i> | 72860 mg/L >=100 mg/L |
|-----------------|-----------------------------------------------------------------|----------------------------------------------------|--------------------------|

12.2. Persistence and degradability

| | |
|----------------------------------|-------------------------------------------------------------------------------|
| Dibenzoyl peroxide | Degr. 68% after 28 days. Readily biodegradable (OECD 301 D) |
| Styrene | Degr. 90% after 28 days. Readily biodegradable |
| 1,1'-(p-tolylimino)dipropan-2-ol | Degr. 39,1% after 28 days. Readily biodegradable (OECD 301B) |
| Ethylene glycol | Degr 90-100% after 10 days (parameter DOC). Readily biodegradable (OECD 301A) |

12.3. Bioaccumulative potential

| | |
|--------------------|------------------------------------------------------------------------|
| Styrene | BCF = 13,5 (<i>Carassius auratus</i>). Low bioaccumulative potential |
| Dibenzoyl peroxide | log K _{OW} = 3,2 |

12.4. Mobility in soil

| | |
|--------------------|--------------------------------------------------|
| Dibenzoyl peroxide | log K _{OC} = 3,8 (OECD 121) |
| Styrene | log K _{OC} = 2,71. Low mobility in soil |

12.5. Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6. Other adverse effects

No reports on other adverse effects

Section 13: Disposal considerations

13.1. Waste treatment methods

Product: Minimum waste quantities. Must not be disposed together with household garbage. Do not allow product to reach sewage system, ground water and water course. Uncured product dispose of as a chemical waste in licensed facility, in accordance with local regulations of environmental protection and binding legislation on recycling. It is recommended to incinerate wastes arose during product usage in a proper incineration oven. Small quantities of both components may be reacted together, allowed to cure and dispose of as a solid waste.










Packaging: Used product packaging (cartridge) may be delivered to plastic waste recycling plant. Contaminated package must be disposed like wastes arose during product usage.

European Waste Code: 08 04 09* – Waste adhesives and sealants containing organic solvents or other dangerous substances. 16 09 03* – Peroxides

Legal basis: Council Directive 2008/98/EC on waste and European Parliament and Council Directive 94/62/EC on packaging and packaging waste. Regulation (EC) No 1013/2006 of 14 June 2006 on shipments of waste.

Section 14: Transport information

| | Land transport ADR /RID | Maritime transport IMDG | Air transport IATA |
|-----------------------------------------|----------------------------|----------------------------|---------------------|
| 14.1. UN number | UN 3269 | UN 3269 | UN 3269 |
| 14.2. UN proper shipping name | POLYESTER RESIN KIT | POLYESTER RESIN KIT | POLYESTER RESIN KIT |
| 14.3. Transport hazard class(es) | 3 | 3 | 3 |

| | | | |
|----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | In a land transport applies the nomenclature in a country origin language and English, French or German version. In case of a maritime transport applies the English terminology (the most convenient). In an air transport applies only the English language. | | |
| 14.4. Packing group | III | III | III |
| Label number: | 3   | 3   | 3 Flammable liquids   |
| Packaging instruction: | P302 | P302 | <u>Passenger and cargo aircraft:</u> Ltd Qty (Pkg Inst.: Y370; Max Net Qty/Pkg: 1kg); Pkg Inst.: 370; Max Net Qty/Pkg: 5kg <u>Cargo aircraft only:</u> Pkg Inst.: 370; Max Net Qty/Pkg: 5kg |
| Limited quantities (LQ): | 5L  | 5L  | 1kg  |
| | Note: Chemical kit containing dangerous goods in inner packagings which do not exceed the quantity limits for LQ applicable to individual substances as specified in Column 7a of the Dangerous Goods List may be transported in accordance with Chapter 3.4 (component B – UN 3106, class 5.2. has LQ = 500g per inner packaging). | | |
| Excepted quantities: | E 0 Note: Based on special provision 340 excepted quantities which do not exceed the quantity limits for excepted quantities applicable to UN 1866 may be transported in accordance with regulations of E 2 code. | E 0 Note: Based on special provision 340 excepted quantities which do not exceed the quantity limits for excepted quantities applicable to UN 1866 may be transported in accordance with regulations of E 2 code. | E 0 Note: Based on special provision 340 excepted quantities which do not exceed the quantity limits for excepted quantities applicable to UN 1866 may be transported in accordance with regulations of E 2 code. |
| Transport category: | 3 | 3 (transport multimodal only) | Not applicable |
| Tunnel restriction code: | E | E (transport multimodal only) | Not applicable |
| Special provisions: | 251, 340 | 251, 340 | A 163 |
| Storage and segregation: | Not applicable | Category A | Not applicable |
| EmS: | Not applicable | F-A, S-P | Not applicable |
| ERG: | Not applicable | Not applicable | 9L |
| 14.5. Environmental hazards | Hazardous for environment (dibenzoyl peroxide) | Hazardous for environment (dibenzoyl peroxide) | Hazardous for environment (dibenzoyl peroxide) |
| 14.6. Special precautions for use | No specific data | No specific data | No specific data |
| 14.7. Transport in bulk according to Annex II of MARPOL 73/78 | Not applicable | Not applicable | Not applicable |

| | | | |
|------------------|--|--|--|
| and the IBC Code | | | |
|------------------|--|--|--|

Section 15: Regulatory information

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

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

Regulation (EC) No 1272/2008 of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC and amending regulation (EC) No 1907/2006 (text with EEA relevance).

Commission Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) (text with EEA relevance).

European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste.

Regulation (EC) No 1013/2006 of the European Parliament and of the Council of 14 June 2006 on shipments of waste.

Commission Regulation (EC) No. 790/2009 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No. 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures.

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives.

Council Directive 89/686/EEC of 21 December 1989 on the approximation of the laws of the Member States relating to personal protective equipment (and its amendments).

15.2. Chemical safety assessment Not applicable

Section 16: Other information

| | | | |
|----------------------------|-----------------------------|---------------------------------------------------------------------------------------|---------------------------|
| Full text of H-statements: | H241 | Heating may cause a fire or explosion | |
| | H242 | Heating may cause a fire | |
| | H300 | Fatal if swallowed | |
| | H301 | Toxic if swallowed | |
| | H302 | Harmful if swallowed | |
| | H317 | May cause an allergic skin reaction | |
| | H318 | Causes serious eye damage | |
| | H319 | Causes serious eye irritation | |
| | H335 | May cause respiratory irritation | |
| | H372 | Causes damage to organs (hearing) through prolonged or repeated exposure (inhalation) | |
| | H400 | Very toxic to aquatic life | |
| | H412 | Harmful to aquatic life with long lasting effects | |
| | EUH208 | Contains dibenzoyl peroxide. May produce an allergic reaction. | |
| | Hazard class: | Acute Tox. 3 | Acute toxicity category 3 |
| | | Acute Tox. 2 | Acute toxicity category 2 |
| Acute Tox. 4 | | Acute toxicity category 4 | |
| Eye Irrit. 2 | | Eye irritation category 2 | |
| Skin Sens. 1 | | Skin sensitization category 1 | |
| STOT SE 3 | | Specific target organ toxicity – Single exposure – category 3 | |
| Aquatic Chronic 3 | | Aquatic Chronic category 3 | |
| Aquatic Acute 1 | | Aquatic acute category 1 | |
| Org. Perox. B | | Organic peroxide category B | |
| Org. Perox. E | Organic peroxide category E | | |

STOT RE 2 Specific target organ toxicity – Repetitive exposure – category 2

Acronyms and abbreviations

- DNEL Derived no-effect level
- PNEC Predicted No Effect Concentration
- PBT Persistent, bioaccumulative and toxicity substances
- vPvB Very persistent and very bioaccumulative substances
- SADT Self-accelerating decomposition temperature

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

| Classification according to Regulation (EC) No 1272/2008 | Classification procedure |
|----------------------------------------------------------|--------------------------|
| Eye Irrit. 2, H319 | Calculation method |
| Skin Sens. 1, H317 | Calculation method |
| Skin Irrit. 2, H315 | Calculation method |
| STOT RE 1, H372 | Calculation method |
| Aquatic Acute 1, H400 | Calculation method |
| Org. Perox. E, H242 | On basis of test data |
| Flam. Liq. 3, H226 | On basis of test data |

Alterations compared to the previous version Sections and subsections where changes have been made to the previous version of the safety data sheet: 2, 3, 8-12, 14, 15, 16.

Training advice: People using the product professionally, should be trained in handling the product, safety and hygiene. Drivers should be trained and obtain the appropriate certificate in accordance with the ADR requirements.

The information contained in the Safety Data Sheet is based on current state of knowledge and applies to product with its identified use. The information is intended to aid the user in controlling the handling risks and not to guarantee product quality. If conditions of product use are not under manufacturer control, responsibility for safe use falls to the user. Employer is obliged to inform all employees working with the product, about possible hazards and personal protection specified in Safety Data Sheet.