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

1.1. Product identifier

Trade name/designation : HC 3/8", HC 1/2", HC 5/8", HC 3/4", HC 7/8", HC 1"

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

Specific use(s) : Building and construction work

1.3. Details of the supplier of the safety data sheet

Company : Powers Fasteners, Inc.
2 Powers Lane, Brewster, NY 10509
Telephone: 800-524-3244
Fax: 877-871-1965
Email: info@powers.com

1.4. Emergency telephone number

Emergency telephone : (CHEMTREC) Within USA: (800) 424-9300;
Outside USA: 01 (703) 527-3887

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.1. Classification according to Regulation (EU) 1272/2008

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

Flam. Liq. 3 H226
Skin Irrit. 2 H315
Eye Irrit. 2 H319
Skin Sens. 1 H317
STOT SE 3 H335
STOT RE 1 H372
Aquatic Acute 1 H400

Full text of H-phrases: see section 16

2.1.2. Classification according to EU Directives 67/548/EEC or 1999/45/EC

Classification : This mixture is classified as hazardous according to 1999/45/EC.

Xn; R20
Xn; R48/20
Xi; R36/38
R43
N; R51/53
R10


Full text of R-phrases: see section 16

2.2. GHS Label elements

2.2.1. Products described and labeled to the Global Harmonization System (GHS)

Hazard pictograms :



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Signal word	: Danger
Contains	: Dibenzoyl peroxide Styrene
Hazard statements	: H226 - Flammable liquid and vapour. H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation. H335 - May cause respiratory irritation. H372 - Causes damage to organs through prolonged or repeated exposure. H400 - Very toxic to aquatic life.
Precautionary statements	: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P273 - Avoid release to the environment. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.2.2. Labelling according to Directives (67/548 - 1999/45)

Not relevant

2.3. Other hazards

Other hazards	: PBT/vPvB data : This information is not available.
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SECTION 3: Composition/information on ingredients

3.1. Substances


Not applicable

3.2. Mixtures

Substance name	Product identifier	%	Classification according to Directive 67/548/EEC
Styrene	(CAS No.) 100-42-5 (EC No) 202-851-5 (EC Index) 601-026-00-0 (REACH-no) 01-2119457861-32-XXXX	13,05 - 21,1	R10 Xn; R20 Xn; R48/20 Xn; R65 Xi; R36/37/38
Dibenzoyl peroxide	(CAS No.) 94-36-0 (EC No) 202-327-6 (EC Index) 617-008-00-0 (REACH-no) 01-2119511472-50-XXXX	1,2 - 2,5	E; R3 O; R7 Xi; R36 R43 N; R50/53
Substance name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Styrene	(CAS No.) 100-42-5 (EC No) 202-851-5 (EC Index) 601-026-00-0 (REACH-no) 01-2119457861-32-XXXX	13,05 - 21,1	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 1, H372 Asp. Tox. 1, H304
Dibenzoyl peroxide	(CAS No.) 94-36-0 (EC No) 202-327-6 (EC Index) 617-008-00-0 (REACH-no) 01-2119511472-50-XXXX	1,2 - 2,5	Org. Perox. B, H241 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=10)

Full text of R- and H-phrases: see section 16

Identification of the substance or mixture : Mixture

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SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	: Provide fresh air. Put victim at rest, cover with a blanket and keep warm. When in doubt or if symptoms are observed, get medical advice.
Skin contact	: Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water. . Call a physician if irritation develops or persists.
Eye contact	: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. When in doubt or if symptoms are observed, get medical advice.
In case of ingestion	: Get medical advice/attention.
Additional advice	: First aider: Pay attention to self-protection! See also section 8 Never give anything by mouth to an unconscious person or a person with cramps. Show this safety data sheet to the doctor in attendance. Treat symptomatically.

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

Inhalation	: May cause respiratory irritation.
Skin contact	: Causes skin irritation. May cause an allergic skin reaction.
Eye contact	: Causes serious eye irritation.
Ingestion	: No adverse effects are expected.
Other adverse effects	: Causes damage to organs through prolonged or repeated exposure.

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

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media


Suitable extinguishing media	: Water spray, alcohol resistant foam, Carbon dioxide, Dry extinguishing powder
Extinguishing media which must not be used for safety reasons	: Strong water jet

5.2. Special hazards arising from the substance or mixture

Fire hazard	: Flammable liquid and vapour.
Specific hazards	: Hazardous decomposition products : COx. Do not allow run-off from fire-fighting to enter drains or water courses. Dispose according to legislation.

5.3. Advice for firefighters

Advice for firefighters	: Special protective equipment for firefighters. Use water spray jet to protect personnel and to cool endangered containers. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. No smoking. Do not allow run-off from fire-fighting to enter drains or water courses. Dispose according to legislation.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel :
- Evacuate area.
 - Use personal protective equipment as required.
 - Reference to other sections: 8 .
 - Provide adequate ventilation.
 - Avoid contact with skin, eyes and clothes.
 - Do not breathe vapours/dust.
 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 - Ensure that the equipment is adequately grounded.
 - Take precautionary measures against static discharges.
- For emergency responders :
- Ensure procedures and training for emergency decontamination and disposal are in place.
 - Personal protection equipment: see section 8 .

6.2. Environmental precautions

- Environmental precautions :
- Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up :
- Stop leak if safe to do so.
 - Take up mechanically and collect in suitable container for disposal.
 - Collect in closed and suitable containers for disposal.
 - Dam up.
 - Dispose according to legislation.
 - Site should have a spill plan to ensure that adequate safeguards are in place to minimize the impact of episodic releases.


6.4. Reference to other sections

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Handling :
- Use only in well-ventilated areas.
 - Use personal protective equipment as required.
 - Personal protection equipment: see section 8 .
 - Avoid contact with skin, eyes and clothes.
 - Do not breathe vapour/spray.
 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 - Handle and open container with care.
 - After use replace the closing cap immediately.
 - Ensure proper process control to avoid excess waste discharge (temperature, concentration, pH value, time).
 - Do not allow to enter into surface water or drains.
 - Take any precaution to avoid mixing with incompatible materials.
 - See also section 10 .
- Advices on general occupational hygiene :
- Keep good industrial hygiene.
 - Wash hands and face before breaks and immediately after handling of the product.
 - When using do not eat, drink or smoke.
 - Take off contaminated clothing.
 - Keep away from food, drink and animal feedingstuffs.

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7.2. Conditions for safe storage, including any incompatibilities

Storage : Keep container tightly closed in a cool, well-ventilated place.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Keep away from food, drink and animal feedingstuffs.
Keep at temperatures below 25 °C.
Keep away from heat.
Protect from sunlight.
Do not store near or with any of the incompatible materials listed in section 10.

7.3 Specific end use(s)


No data available

SECTION 8: Exposure controls/personal protection


8.1. Control parameters

Exposure limit values :

Styrene (100-42-5)		
Austria	MAK (mg/m ³)	85 mg/m ³
Austria	MAK (ppm)	20 ppm
Austria	MAK Short time value (mg/m ³)	340 mg/m ³
Austria	MAK Short time value (ppm)	80 ppm
Belgium	Limit value (mg/m ³)	173 mg/m ³
Belgium	Limit value (ppm)	40 ppm
Belgium	Short time value (mg/m ³)	346 mg/m ³
Belgium	Short time value (ppm)	80 ppm
Bulgaria	OEL TWA (mg/m ³)	85,0 mg/m ³
Bulgaria	OEL STEL (mg/m ³)	215,0 mg/m ³
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	430 mg/m ³
Croatia	GVI (granična vrijednost izloženosti) (ppm)	100 ppm
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m ³)	1080 mg/m ³
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (ppm)	250 ppm
France	VME (mg/m ³)	215 mg/m ³
France	VME (ppm)	50 ppm
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	86 mg/m ³ (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Germany	TRGS 900 Occupational exposure limit value (ppm)	20 ppm (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Germany	TRGS 903 (BGW)	600 mg/g (Medium: urine - Time: end of shift - Parameter: Mandelic acid plus Phenylglyoxylic acid (measured as mg/g Creatinine) 600 mg/g (Medium: urine - Time: end of several shifts - Parameter: Mandelic acid plus Phenylglyoxylic acid (measured as mg/g Creatinine; for long-term exposures)
Greece	OEL TWA (mg/m ³)	425 mg/m ³
Greece	OEL TWA (ppm)	100 ppm

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Styrene (100-42-5)		
Greece	OEL STEL (mg/m ³)	1050 mg/m ³
Greece	OEL STEL (ppm)	250 ppm
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	20 ppm
Italy - Portugal - USA ACGIH	ACGIH STEL (ppm)	40 ppm
Latvia	OEL TWA (mg/m ³)	10 mg/m ³
Spain	VLA-ED (mg/m ³)	86 mg/m ³ (endocrine disruptor)
Spain	VLA-ED (ppm)	20 ppm (endocrine disruptor)
Spain	VLA-EC (mg/m ³)	172 mg/m ³
Spain	VLA-EC (ppm)	40 ppm
Switzerland	VLE (mg/m ³)	170 mg/m ³
Switzerland	VLE (ppm)	40 ppm
Switzerland	VME (mg/m ³)	85 mg/m ³
Switzerland	VME (ppm)	20 ppm
United Kingdom	WEL TWA (mg/m ³)	430 mg/m ³
United Kingdom	WEL TWA (ppm)	100 ppm
United Kingdom	WEL STEL (mg/m ³)	1080 mg/m ³
United Kingdom	WEL STEL (ppm)	250 ppm
Czech Republic	Expoziční limity (PEL) (mg/m ³)	100 mg/m ³
Finland	HTP-arvo (8h) (mg/m ³)	86 mg/m ³
Finland	HTP-arvo (8h) (ppm)	20 ppm
Finland	HTP-arvo (15 min)	430 mg/m ³
Finland	HTP-arvo (15 min) (ppm)	100 ppm
Hungary	AK-érték	50 mg/m ³
Hungary	CK-érték	50 mg/m ³
Ireland	OEL (8 hours ref) (mg/m ³)	85 mg/m ³
Ireland	OEL (8 hours ref) (ppm)	20 ppm
Ireland	OEL (15 min ref) (mg/m ³)	170 mg/m ³
Ireland	OEL (15 min ref) (ppm)	40 ppm
Lithuania	IPRV (mg/m ³)	90 mg/m ³
Lithuania	IPRV (ppm)	20 ppm 10 ppm (for planning of new facilities or replacing the old ones)
Lithuania	TPRV (mg/m ³)	200 mg/m ³
Lithuania	TPRV (ppm)	50 ppm
Norway	Gjennomsnittsverdier (AN) (mg/m ³)	105 mg/m ³
Norway	Gjennomsnittsverdier (AN) (ppm)	25 ppm
Norway	Gjennomsnittsverdier (Korttidsverdi) (mg/m ³)	131,25 mg/m ³
Norway	Gjennomsnittsverdier (Korttidsverdi) (ppm)	37,5 ppm
Poland	NDS (mg/m ³)	50 mg/m ³
Poland	NDSch (mg/m ³)	200 mg/m ³
Romania	OEL TWA (mg/m ³)	50 mg/m ³
Romania	OEL TWA (ppm)	12 ppm
Romania	OEL STEL (mg/m ³)	150 mg/m ³
Romania	OEL STEL (ppm)	35 ppm
Slovakia	NPHV (priemerná) (mg/m ³)	86 mg/m ³
Slovakia	NPHV (priemerná) (ppm)	20 ppm

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Styrene (100-42-5)		
Slovakia	NPHV (Hraničná) (mg/m ³)	200 mg/m ³
Sweden	nivågränsvärde (NVG) (mg/m ³)	43 mg/m ³
Sweden	nivågränsvärde (NVG) (ppm)	10 ppm
Sweden	kortidsvärde (KTV) (mg/m ³)	86 mg/m ³
Sweden	kortidsvärde (KTV) (ppm)	20 ppm

Recommended monitoring procedures : Concentration measurement in air
Personal air monitoring

8.2. Exposure controls

Personal protection equipment : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.
Full face mask (EN 136)
Half-face mask (DIN EN 140)
Filter type: A (EN 141)

Hand protection : Wear chemically resistant gloves (tested to EN374) „Butyl caoutchouc (butyl rubber) „Breakthrough time (maximum wearing time): : > 120 min., The selection of specific gloves for a specific application and time of use in a working area, should also take into account other factors on the working space, such as (but not limited to): other chemicals that are possibly used, physical requirements (protection against cutting/drilling, skill, thermal protection), and the instructions/specification of the supplier of gloves.

Eye protection : Safety glasses (EN 166)

Body protection : Wear suitable protective clothing.

Thermal hazard protection : Not required under normal use.

Engineering control measures : Provide adequate ventilation.
Use only in area provided with appropriate exhaust ventilation.
A washing facility/water for eye and skin cleaning purposes should be present.
Take precautionary measures against static discharge.
Organisational measures to prevent /limit releases, dispersion and exposure
See also section 7 .

Environmental exposure controls : Do not allow contact with soil, surface or ground water.
Comply with applicable Community environmental protection legislation.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance : capsules

Colour : colourless

Odour : characteristic


Odour threshold : No data available

pH : No data available

Melting point/freezing point : No data available

Initial boiling point and boiling range : No data available

Flash point : < 55 °C resin

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Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Upper/lower flammability or explosive limits	:	No data available
Vapour pressure	:	No data available
Vapour density	:	No data available
Relative density	:	No data available
Water solubility	:	Insoluble
Solubility in different media	:	No data available
Partition coefficient n-octanol/water	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity	:	(@ 23°C) 390 - 490 mPa.s resin
Explosive properties	:	Not applicable The study does not need to be conducted because there are no chemical groups associated with explosive properties present in the molecule.
Oxidising properties	:	Not applicable The classification procedure needs not to be applied because there are no chemical groups present in the molecule which are associated with oxidising properties.

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity : Flammable liquid and vapour.
Reference to other sections: 10.5

10.2. Chemical stability

Stability : The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions : heat, UV:
Polymerisation can occur.

10.4. Conditions to avoid

Conditions to avoid : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
See also section 7 :
Handling and storage .

10.5. Incompatible materials

Incompatible materials : Strong oxidizing agents ., Strong bases ., Strong acids ., See also section 7 ;, Handling and storage .


10.6. Hazardous decomposition products

Hazardous decomposition products : Burning produces noxious and toxic fumes. (COx).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified (Based on available data, the classification criteria are not met.)

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Styrene (100-42-5)	
LD50/oral/rat	1000 mg/kg
LC50/inhalation/4h/rat	11,8 mg/l

Skin corrosion/irritation	: Causes skin irritation. Styrene : Causes skin irritation. pH: No data available
Serious eye damage/eye irritation	: Causes serious eye irritation. Styrene / dibenzoyl peroxide, benzoyl peroxide : Causes serious eye irritation. pH: No data available
Respiratory or skin sensitisation	: May cause an allergic skin reaction. dibenzoyl peroxide, benzoyl peroxide : May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met.)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met.)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met.)
STOT-single exposure	: May cause respiratory irritation. Styrene : May cause respiratory irritation.
STOT-repeated exposure	: Causes damage to organs through prolonged or repeated exposure. Styrene : Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met.)

Other information


Symptoms related to the physical, chemical and toxicological characteristics, Reference to other sections: 4.2

SECTION 12: Ecological information

12.1. Toxicity

Toxicity : Very toxic to aquatic life.

Styrene (100-42-5)	
LC50 fish 1	3,24 - 4,99 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 1	3,3 - 7,4 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 other aquatic organisms 1	1,4 mg/l (Exposure time: 72 h - Species: Pseudokirchneriella subcapitata)
LC50 fish 2	19,03 - 33,53 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
LC50 other aquatic organisms 2	500 mg/l Bacteria
EC50 other aquatic organisms 2	0,72 mg/l (Exposure time: 96 h - Species: Pseudokirchneriella subcapitata)
NOEC (acute)	44 mg/kg (Exposure time: 14 Days - Species: Eisenia foetida [soil dry weight])
NOEC (additional information)	NOEC, Daphnia : 1,01 mg/l (21d)

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12.2. Persistence and degradability

Persistence and degradability : No data available

12.3. Bioaccumulative potential

Bioaccumulation : No data available

Partition coefficient n-octanol/water : No data available

12.4. Mobility in soil

Mobility : No data available

12.5. Results of PBT and vPvB assessment

PBT/vPvB data : This information is not available.

12.6. Other adverse effects

Other information : No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product waste: : Handle with care.
Safe handling: see section 7 .
Do not allow to enter into surface water or drains.
Refer to manufacturer/supplier for information on recovery/recycling .
Collect and dispose of waste product at an authorised disposal facility.
Dispose according to legislation.

Contaminated packaging : In accordance with local and national regulations.

Further ecological information : Should not be released into the environment.

List of proposed waste codes/waste designations in accordance with EWC : The following Waste Codes are only suggestions:
150110* - packaging containing residues of or contaminated by dangerous substances .
Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

SECTION 14: Transport information

14.1. UN number

UN number : 1866

14.2. UN proper shipping name

Proper shipping name IATA/IMDG : IATA : RESIN SOLUTION

14.3. Transport hazard class(es)


14.3.1. Overland transport

ADR/RID : No good of class 3 according to ADR/RID chapter 2.2.3.1.5

14.3.2. Inland waterway transport (ADN)

No data available

14.3.3. Transport by sea

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IMDG : If shipped by vessel in quantities LESS than 30L, IMDG 2.3.2.5 exception applies: Not regulated as a hazardous material.
State on shipping documents: "Transport in accordance with 2.3.2.5 of the IMDG code."

Class or Division : -
Subsidiary Class : IATA : 3 - Flammable liquids

14.3.4. Air transport

Class or Division : -
Subsidiary Class : IATA : 3 - Flammable liquids

14.4. Packing group

Packing group : III

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

No data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006 :

3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008 : HC 3/8", HC 1/2", HC 5/8", HC 3/4", HC 7/8", HC 1"

40. Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not. : HC 3/8", HC 1/2", HC 5/8", HC 3/4", HC 7/8", HC 1"

This product contains an ingredient according to the candidate list of Annex XIV of the REACH Regulation 1907/2006/EC.


: none

Authorisations

: Not applicable

15.1.2. National regulations

DE : WGK : 2
DE : German storage class (LGK) : LGK 3 - Flammable liquid materials (Flashpoint < 55 °C)
DE : Risk classification according to VbF : A II - Liquids with a flashpoint between 21°C and 55°C
FR : Installations classées : 143X

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15.2. Chemical safety assessment

Chemical Safety Assessment


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

Styrene
Dibenzoyl peroxide

SECTION 16: Other information

Full text of R-, H- and EUH-phrases:

Acute Tox. 4 (Inhalation:dust,mist)	: Acute toxicity Category 4
Aquatic Acute 1	: Hazardous to the aquatic environment - Aquatic Acute 1
Asp. Tox. 1	: Aspiration hazard, Category 1
Eye Irrit. 2	: Serious eye damage/eye irritation Category 2
Flam. Liq. 3	: Flammable liquids, Category 3
Org. Perox. B	: Organic Peroxides, Type B
Skin Irrit. 2	: Skin corrosion/irritation, Category 2
Skin Sens. 1	: Skin sensitisation, hazard category 1
STOT RE 1	: Specific target organ toxicity — Repeated exposure, Category 1
STOT SE 3	: Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H226	: Flammable liquid and vapour.
H241	: Heating may cause a fire or explosion.
H304	: May be fatal if swallowed and enters airways.
H315	: Causes skin irritation.
H317	: May cause an allergic skin reaction.
H319	: Causes serious eye irritation.
H332	: Harmful if inhaled.
H335	: May cause respiratory irritation.
H372	: Causes damage to organs through prolonged or repeated exposure.
H400	: Very toxic to aquatic life.
R10	: Flammable.
R20	: Harmful by inhalation.
R3	: Extreme risk of explosion by shock, friction, fire or other sources of ignition.
R36	: Irritating to eyes.
R36/37/38	: Irritating to eyes, respiratory system and skin.
R36/38	: Irritating to eyes and skin.
R43	: May cause sensitisation by skin contact.
R48/20	: Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R50/53	: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53	: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65	: Harmful: may cause lung damage if swallowed.
R7	: May cause fire.
E	: Explosive
N	: Dangerous for the environment
O	: Oxidizing
Xi	: Irritant
Xn	: Harmful
Key literature references and sources for data	: European Chemicals Bureau. ECHA website. SDS from supplier.
Other information	: Assessment/classification CLP, Article 9, Calculation method.
Abbreviations and acronyms	: ADN = Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route

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CLP = Classification, Labelling and Packaging Regulation according to 1272/2008/EC
IATA = International Air Transport Association
IMDG = International Maritime Dangerous Goods Code
LEL = Lower Explosive Limit/Lower Explosion Limit
UEL = Upper Explosion Limit/Upper Explosive Limit
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
EC50 = Median Effective Concentration
LC50 = Median lethal concentration
LD50 = Median lethal dose
Not applicable
TLV = Threshold limits
TWA = time weighted average
STEL = Short term exposure limit
persistent, bioaccumulating and toxic (PBT).
vPvB = very persistent and very bioaccumulating
WGK = Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act)

The contents and format of this SDS are in accordance with EEC Commission Directive 1999/45/EC, 67/548/EC, 1272/2008/EC and EEC Commission Regulation 1907/2006/EC (REACH) Annex II.

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