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Safety data sheet

1. Substance/preparation and company identification

Trade name: BKF Polyflex

Application of the substance/ the preparation: Laminating resin for orthopaedic technology

BEIL

Kunststoff-Produktions- und Handelsgesellschaft mbH

Lehmkuhlenweg 9 D- 31224 Peine

Telefon: +49 (0)5171/70 99-0 Telefax: +49 (0)5171/7099-29 E-Mail: service@beil-peine.de

Information in case of emergency:

Giftzentrale Göttingen Tel.: +49 (0)551/19240 Telefax: +49 (0)551/3831881

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Product definition: Mixture

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

Flam. Liq. 3, H226 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 1, H372i

See Section 16 for the full text of the H statements declared above.

Classification according to Directive 1999/45/EC [DPD]

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification R10

Xn; R20, R48/20 Xi; R36/37/38

Physical/chemical hazards: Flammable.

Human health hazards: Harmful by inhalation. Irritating to eyes, respiratory system and skin.

Harmful: danger of serious damage to health by prolonged exposure

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through inhalation.

Environmental hazards: Based on the available data of this product no hazardous properties

are known.

See Section 16 for the full text of the R-phrases declared above.

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2.2 LABEL ELEMENTS Hazard pictograms:







Signal Word: Danger **Hazard Statements**

H226 Flammable liquid and vapour.

H332 Harmful if inhaled. H315 Causes skin irritation.

H319 Causes serious eye irritation. H335 May cause respiratory irritation.

H372i Causes damage to organs through prolonged or repeated exposure if inhaled.

Precautionary Statements

Prevention: Wear protective gloves: >8 hours (breakthrough time): fluor rubber (Viton)

(0.70 mm); <1 hours (breakthrough time): Nitrile gloves. / Chloroprene (0.2 mm). Wear eye or face protection. Keep away from heat, sparks, open flames and hot surfaces. - No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Do not breathe vapour. Do not eat, drink or smoke when using this product. Wash hands thoroughly

after handling.

Response: Get medical attention if you feel unwell. IF INHALED: Remove victim to fresh

air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated

clothing. If skin irritation occurs: Get medical attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists:

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Get medical attention.

Storage: Keep cool.

Disposal: not applicable.

Hazardous ingredients:

styrene

2.3 Other hazard

Other hazards which do

not result in classification: Not available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances, Mixtures or Article Mixtures

Component CAS No.

Styrene CAS-Nr.:100-42-5 20-35 %

EC-No.: 202-851-5

REACH 01-2119457861-32 Index: 601-026-00-0

Classification: R10 Xn; R20-48/20-65

Xi; R36/37/38

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Flam. Liq. 3, H226 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 1, H372i Asp. Tox. 1, H304

See Section 16 for the full text of the H statements declared above.

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

4. FIRST AID MEASURES

4.1 Description of first aid measures

Eye contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower

eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10

minutes. Get medical attention.

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it

is suspected that fumes are still present, the rescuer should wear an appropriate mask or selfcontained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Rinse immediately

with plenty of water for at least 15 minutes. Obtain medical advice if there are

persistent symptoms.

Skin Contact: Flush contaminated skin with plenty of water. Remove contaminated clothing and

shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing

before reuse.

Ingestion: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and

keep at rest in a position comfortable for breathing. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention following exposure or if feeling unwell. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.

Loosen tight clothing such as a collar, tie, belt or waistband.

Protection of first-aiders:

No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

Eye contact: Causes serious eye irritation

Inhalation: Harmful if inhaled. May cause respiratory irritation.

Skin contact: Causes skin irritation.

Ingestion: Irritating to mouth, throat and stomach.

Over-exposure signs/symptoms

Eye contact: Adverse symptoms may include the following:

pain or irritation

watering redness

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Inhalation: Adverse symptoms may include the following:

respiratory tract irritation

coughing

Skin contact: Adverse symptoms may include the following:

irritation redness

Ingestion: No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician: Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

Specific treatments: No specific treatment

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Small fire

Suitable: Use dry chemical powder, CO2 or alcohol-resistant foam. Cover with

vermiculite or other noncombustible material.

Not suitable: Do not use water jet.

Large fire

Suitable: Alcohol-resistant foam. **Not suitable:** Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Hazards from the

substance or mixture: Flammable liquid and vapour. In a fire or if heated, a pressure increase will

occur and the container may burst, with the risk of a subsequent explosion.

Runoff to sewer may create fire or explosion hazard.

Hazardous combustion

Products: In case of fire, may produce hazardous decomposition products such as

carbon monoxide, carbon dioxide, (dense) black smoke, aldehydes, organic

acids.

5.3 Advice for firefighters Special protective actions

for fire-fighters: Fire water contaminated with this material must be contained and prevented

from being discharged to any waterway, sewer or drain.

Special protective equipment

for fire-fighters: Fire-fighters should wear appropriate protective equipment and self-

contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for firefighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a

basic level of protection for chemical incidents.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

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6.2 Environmental precautions: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and materials for containment and cleaning up

Small spill: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if watersoluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor.

Large spill: Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.

6.4 Reference to other sections: See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

7. HANDLING AND STORAGE

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Protective measures: Put on appropriate personal protective equipment (see Section 8). Do not breathe vapour or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general

occupational hygiene: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking.

Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities:

Do not store above the following temperature: 25°C (77°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. Keep away from heat and direct sunlight

7.3 Specific end use(s)

Recommendations: Not available.

Industrial sector specific solutions: Not available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

CONTROL PARAMETERS
Occupational exposure limits

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100-42-5 Styrene

EH40/2005 WELs (United Kingdom (UK), 8/2007).

STEL: 250 ppm 15 minute(s). TWA: 100 ppm 8 hour(s). TWA: 430 mg/m³ 8 hour(s). STEL: 1080 mg/m³ 15 minute(s).

Recommended monitoring procedures: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

Derived effect level:

Product/ingredient name	Туре	Exposure	Value	Population
styrene	DNEL	Short term Inhalation	289 mg/m ³	Workers
	DNEL	Short term Inhalation	306 mg/m ³	Workers
	DNEL	Long term Inhalation	85 mg/m ³	Workers
	DNEL	Short term Inhalation	174.25 mg/m ³	Consumers
	DNEL	Short term Inhalation	182.75 mg/m ³	Consumers
	DNEL	Long term Inhalation	10.2 mg/m ³	Consumers

Predicted effect concentrations:

Product/ingredient name	Type	Compartment Detail	Value	Method Detail
styrene	PNEC	Fresh water	0.028 mg/l	Assessment Factors
	PNEC	Marine	0.0028 mg/l	Assessment Factors
	PNEC	Fresh water sediment	0.614 mg/kg dwt	-
	PNEC	Marine water sediment	0.0614 mg/kg dwt	-
	PNEC	Sewage Treatment Plant	5 mg/	Assessment Factors
	PNEC	Soil	0.2 mg/kg dwt	-

8.2 Exposure controls

Appropriate engineering controls: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Individual protection measures

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection: Safety glasses with side shields.

Hand protection: >8 hours (breakthrough time): fluor rubber (Viton) (0.70 mm)

<1 hours (breakthrough time): Nitrile gloves. / Chloroprene (0.2 mm)

Skin and body: Wear suitable protective clothing. **Respiratory protection:** Wear filter mask, filtertype A.

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Remarks: Replace damaged gloves.

Advice on personal protection is applicable for high exposure levels. Select proper personal protection based on a risk assessment of the actual exposure situation.

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9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state: Liquid. [Clear.] Colour: Yellowish. [Light] Characteristic Odour: **Odour threshold:** Not available Not available pH: **Melting point:** Not available

Initial boiling point and

boiling range: 145 °C Softening range: Not available

Flash point: 33 °C Closed cup, ISO 1523

Evaporation rate: Not available Flammability (solid, gas): Not available. **Burning time:** Not applicable. **Burning rate:** Not applicable.

Upper/lower flammability or

Not available. explosive limits: Vapour pressure: Not available. Vapour density: Not available. Relative density: 1.1 (Water = 1)1.1 g/cm3 (23°C) Density (g/cm3): **Bulk density:** Not available.

Solubility: Insoluble in the following materials: cold water.

Solubility in water: Not available.

Solubility at room

Not available. temperature:

Partition coefficient: n-octanol/

Not available. Auto-ignition temperature: Not available. **Decomposition temperature:** Not available.

Viscosity: Dynamic: 300 to 350 mPa·s (300 to 350 cP)

Explosive properties: Not available. Not available. Oxidising properties:

9.2 Other information

Remarks: Not available.

STABILITY AND REACTIVITY 10.

No specific test data related to reactivity available for this product or its 10.1 Reactivity:

ingredients.

10.2 Chemical stability

10.3 Possibility of

The product is stable.

hazardous reactions:

Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid: Avoid all possible sources of ignition (spark or flame). Do not

pressurise, cut, weld, braze, solder, drill, grind or expose containers to

heat or sources of ignition.

10.5 Incompatible materials: Reactive or incompatible with the following materials: oxidizing

materials

10.6 Hazardous

decomposition products: No specific data.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
styrene	LD50 Dermal	Rat	>2000 mg/kg	-

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LD50 Oral LC50 Inhalation Vapour	Rat Rat	5000 mg/kg 12 g/m³	- 4 hours
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Conclusion/ Summary: Not available.

Acute toxicity estimates

Route	ATE value
Inhalation (gases)	13512.3 ppm
Inhalation (vapours)	33.03 mg/l
Inhalation (dusts and mists)	4.504 mg/l

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
styrene	Respiratory -	Mammal –	-	-	-
	Irritant	species			
		unspecified			

Conclusion/ Summary

Eyes: Not available. **Skin:** Not available. **Respiratory Sensitisation:** Not available.

Conclusion/ Summary

Skin: Not available. Respiratory Mutagenicity: Not available.

Conclusion/Summary

Reproductive toxicity: Not available.

Conclusion/Summary:

Teratogenicity

Not available.

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
styrene	Category 3	Not determined	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
styrene	Category 1	Inhalation	ears

Aspiration hazard

Product/ingredient name	Result
styrene	ASPIRATION HAZARD - Category 1

Potential acute health effects

Eye contact: Causes serious eye irritation.

Inhalation: Harmful if inhaled. May cause respiratory irritation.

Skin contact: Causes skin irritation.

Ingestion: Irritating to mouth, throat and stomach.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact: Adverse symptoms may include the following:

pain or irritation watering

redness

Inhalation: Adverse symptoms may include the following:

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Ingestion:

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respiratory tract irritation

coughing

Skin contact: Adverse symptoms may include the following:

irritation redness

No specific data.

General Causes damage to organs through prolonged or repeated exposure if inhaled.

Carcinogenicity:

Mutagenicity:

No known significant effects or critical hazards.

Classification

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
Styrene	A4	2B	1	-	-	-
1,4-dihydroxybenzene	A3	3	-	-	-	-

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure	Effects
styrene	Acute EC50 4.9 mg/l	Algae	72 hours	
	Acute LC50 4.02 mg/l Chronic NOEC 1.01 mg/l	Fish - Fathead minnow Daphnia - Daphnia magna	96 hours 21 hours	-
				-

Conclusion/Summary: Not available.

12.2 Persistence and degradability

Conclusion/Summary: Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
styrene	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
styrene	2.95	-	low

12.4 Mobility in soil

Soil/water partition coefficient (KOC): Not available. Mobility: Not available

12.5 Results of PBT and vPvB assessment

PBT: Not applicable. **vPvB**: Not applicable.

12.6 Other adverse effects No known significant effects or critical hazards.

13. DISPOSAL CONSIDERATIONS

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

Methods of disposal: The generation of waste should be avoided or minimised wherever possible. Empty containers or liners may retain some product residues. This material and its container must be

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disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Hazardous waste: The classification of the product may meet the criteria for a hazardous waste.

Packaging

Methods of disposal: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

14. TRANSPORT INFORMATION

	ADR/RID	ADN/ADNR	IMDG	IATA
14.1 UN number	UN1866	UN1866	UN1866	UN1866
14.2 UN proper shipping name	RESIN SOLUTION	RESIN SOLUTION	RESIN SOLUTION	RESIN SOLUTION
14.3 Transport hazard class(es)	3	3	3	3
14.4 Packing group	III	III	III	III
14.5 Environmental hazards	No.	Yes	No	No
14.6 Special Pre- cautions for user	Not available.	Not available.	Not available.	Not available.
Additional information	Hazard identification Number 30 Limited quantity 5 L Special provisions 640E Tunnel code (D/E) Remarks This class 3 material can be considered non hazardous in packagings up to 450 L.	-	Emergency schedules (EmS) F-E, _S-E_	Passenger and Cargo AircraftQuantity limitation: 60 L Packaging instructions: 355 Cargo Aircraft Only Quantity limitation: 220 L Packaging instructions: 366 Limited Quantities - Passenger Aircraft Quantity limitation: 10 L Packaging instructions: Y344

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

Code: Not available.

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Substances of very high concern

None of the components are listed.

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Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles:

Not applicable.

15.2 Chemical Safety Assessment: Not applicable

16. Other Information

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Flam. Liq. 3, H226	On basis of test data
Acute Tox. 4, H332	Calculation method
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
STOT SE 3, H335	Calculation method
STOT RE 1, H372i	Calculation method

Full text of abbreviated H

Statements: H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H372i Causes damage to organs through prolonged or repeated exposure if inhaled.

Full text of classifications

[CLP/GHS]: Acute Tox. 4, H332 ACUTE TOXICITY: INHALATION - Category 4

Asp. Tox. 1, H304 ASPIRATION HAZARD - Category 1

Eye Irrit. 2, H319 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2

Flam. Liq. 3, H226 FLAMMABLE LIQUIDS - Category 3

Skin Irrit. 2, H315 SKIN CORROSION/IRRITATION - Category 2

STOT RE 1, H372i SPECIFIC TARGET ORGAN TOXICITY (REPEATED

EXPOSURE): INHALATION [ears] - Category 1

STOT SE 3, H335 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)

[Respiratory tract irritation] - Category 3

Full text of abbreviated R

Phrases: R10- Flammable.

R20- Harmful by inhalation.

R48/20- Harmful: danger of serious damage to health by prolonged exposure through

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inhalation.

R65- Harmful: may cause lung damage if swallowed.

R36/37/38- Irritating to eyes, respiratory system and skin.

Full text of classifications [DSD/DPD]: Xn - Harmful

Xi - Irritant

The information contained here in is based on the present state of our knowledge and does not therefore guarantee certain properties. Recipients of our product must take responsibility for observing existing laws and regulations.