

Safety Data Sheet as per regulation (EC) 1907/2006

Commercial Product Name: Fire Stop Hand Foam

Revision date: 10.12.2020

Version: 3.0/en



Print date: 10.12.2020

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

1.1 Product identifier

Commercial Product Name **Fire Stop Hand Foam**
Unique Formulation Identifier SR40-00QW-W00U-74FW
(UFI)

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

Relevant identified uses One-component polyurethanic foam
 Observe technical data sheet.
Recommended restrictions None under normal processing.

1.3 Details of the supplier of the safety data sheet

Company designation fischerwerke GmbH & Co. KG
 Klaus-Fischer-Straße 1
 D-72178 Waldachtal
 Telephone: +49(0)7443 12-0
 FAX: +49(0)7443 12-4222
 Email: info-sdb@fischer.de
 Internet: www.fischer.de

Marketer Great Britain: Mrs Mirka Valovicova, fischer Fixing (UK) Ltd
 Hithercroft Road
 Wallingford, Oxfordshire, OX10 9AT
 Telephone: +44 01491 827 920
 FAX: +44 01491 827 950
 Internet: www.fischer.co.uk

1.4 Emergency telephone number

Emergency telephone number +49(0)6132-84463 (24h)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regula- Aerosol 1; H222 H229 Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2;
tion (EC) No. 1272/2008 H319 Resp. Sens. 1; H334 Skin Sens. 1; H317 Carc. 2; H351 STOT SE 3;
 H335 STOT RE 2; H373

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2.2 Label elements

Hazard pictogram



GHS02



GHS07



GHS08

Signal word

Danger

Hazardous component(s) to be indicated on label

Diphenylmethanediisocyanate, isomers and homologues

H-statement(s)

H222: Extremely flammable aerosol.
H229: Pressurised container: May burst if heated.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H319: Causes serious eye irritation.
H332: Harmful if inhaled.
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335: May cause respiratory irritation.
H351: Suspected of causing cancer .
H373: May cause damage to organs through prolonged or repeated exposure .

P-statement(s)

P101: If medical advice is needed, have product container or label at hand.
P102: Keep out of reach of children.
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211: Do not spray on an open flame or other ignition source.
P251: Do not pierce or burn, even after use.
P260: Do not breathe dust/fume/gas/mist/vapours/spray.
P271: Use only outdoors or in a well-ventilated area.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P405: Store locked up.
P410+P412: Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501: Dispose of contents/container to special waste treatment .

Further information

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Keep out of the reach of children. Buildup of explosive mixtures possible without sufficient ventilation.

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Persons already sensitised to diisocyanates may develop allergic reactions when using this product.
Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product.
EUH204: Contains isocyanates. May produce an allergic reaction.
This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.

2.3 Other hazards

Health hazard	No information available.
Particular information pertaining specific risk for human / environment	No information available.
Indication of danger	No information available.
Hazard precautions	No information available.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

Ingredient	CAS No.	Classification (EC) 1272/2008	Concentration
Diphenylmethanediisocyanate, isomers and homologues	CAS No.: 9016-87-9 EC-No.: 618-498-9 REACH No.: The substance does not require registration according to Regulation (EC) No 1907/2006 [REACH].	Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1; H334 Skin Sens. 1; H317 Carc. 2; H351 STOT SE 3; H335 STOT RE 2; H373	30.0 - 60.0 % by weight
Phosphorous oxychloride, reaction products with propylene oxide	CAS No.: 1244733-77-4 EC-No.: 911-815-4 REACH No.: 01-2119486772-26	Acute Tox. 4; H302	< 25.0 % by weight
Halogenated polyether-polyol	CAS No.: 86675-46-9	Acute Tox. 4; H302	< 15.0 % by weight
propane	CAS No.: 74-98-6 EC-No.: 200-827-9 Index-No.: 601-003-00-5 REACH No.: 01-2119486944-21	Flam. Gas 1; H220 Press. Gas; H280	< 15.0 % by weight
butane	CAS No.: 106-97-8 EC-No.: 203-448-7 Index-No.: 601-004-00-0 REACH No.: 01-2119474691-32	Flam. Gas 1; H220 Press. Gas; H280	< 15.0 % by weight
isobutane	CAS No.: 75-28-5 EC-No.: 200-857-2 Index-No.: 601-004-00-0 REACH No.: 01-2119485395-27	Flam. Gas 1; H220 Press. Gas; H280	< 15.0 % by weight
dimethyl ether	CAS No.: 115-10-6 EC-No.: 204-065-8 Index-No.: 603-019-00-8	Flam. Gas 1; H220 Press. Gas; H280	< 10.0 % by weight

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Ingredient	CAS No.	Classification (EC) 1272/2008	Concentration
	REACH No.: 01-2119472128-37, 01-2119519269-33		

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	Take off immediately all contaminated clothing. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Wear personal protection equipment (refer to section 8).
If inhaled	Provide fresh air. In case of respiratory tract irritation, consult a physician.
In case of skin contact	After contact with skin, wash immediately with plenty of water and soap. Do NOT use solvents or thinners.
In case of eye contact	Remove contact lenses. 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.
If swallowed	If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Let water be drunken in little sips (dilution effect). Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms	No information available.
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4.3 Indication of any immediate medical attention and special treatment needed

Immediate medical attention	If unconscious place in recovery position and seek medical advice.
Special medical treatment	Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	spray mist, (water), Water spray jet, alcohol resistant foam, carbon dioxide, Extinguishing powder
Extinguishing media which must not be used for safety reasons	Full water jet

5.2 Special hazards arising from the substance or mixture

Special exposure hazards arising from the substance or preparation	Heating or fire can release toxic gas. Pressurised container: May burst if heated. Fight fire with normal precautions from a reasonable distance.
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tion itself, its combustion products, or released gases

5.3 Advice for firefighters

Special protective equipment for firefighting

In case of fire: Wear self-contained breathing apparatus. For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes).

Additional information on firefighting

Suppress (knock down) gases/vapours/mists with a water spray jet. Keep containers and surroundings cool with water spray. Do not allow water used to extinguish fire to enter drains, ground or waterways.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions

For non-emergency personnel
Accidental release measures:
Wear personal protection equipment (refer to section 8).
Remove all sources of ignition.
Ensure adequate ventilation, especially in confined areas.

6.2 Environmental precautions

Environmental precautions

The product should not be allowed to enter drains, water courses or the soil.
Prevent spread over a wide area (e.g. by containment or oil barriers).

6.3 Methods and material for containment and cleaning up

Methods for cleaning up

Allow stiffening. Take up mechanically.
Treat the recovered material as prescribed in the section on waste disposal.

6.4 Reference to other sections

Reference to other sections

Reference to other sections : 7 / 8 / 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Vapours are heavier than air and may spread along floors. BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50°C. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects.
Keep container tightly closed.
Hygiene measures: When using do not eat, drink or smoke. Wash hands before breaks and after work.

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Precautions
Take off contaminated clothing and wash it before reuse.
Handle and open container with care.
Provide sufficient air exchange and/or exhaust in work rooms.

Advice on protection against fire and explosion
No special measures are necessary.
Take measures to prevent the build up of electrostatic charge.

7.2 Conditions for safe storage, including any incompatibilities

Storage space and container requirements
Container may rupture on heating.
Keep/Store only in original container.
Keep container tightly closed and dry.
Store in accordance with local regulations.

Unsuitable materials for containers
Keep only in original container.

Hints on storage assembly
Keep away from food, drink and animal feedingstuffs.

German storage class
LGK 2B (TRGS 510)

Recommended storage temperature
+5 - 25 °C

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

butane

Great Britain					
Long-term exposure value/ ppm	Long-term exposure value/ mg/m ³	Short-term exposure value / ppm	Short-term exposure value / mg/m ³	Note	Source
600	1450	750	1810	Carc; only applies if Butane contains more than 0.1% of buta-1,3-diene	EH40/2005 Workplace exposure limits (2011)

dimethyl ether

Great Britain				
Long-term exposure value/ ppm	Long-term exposure value/ mg/m ³	Short-term exposure value / ppm	Short-term exposure value / mg/m ³	Source
400	766	500	958	EH40/2005 Workplace exposure limits (2011)

Europe

Long-term exposure value/ mg/m ³	Long-term exposure value/ ppm	Issuing date	Source
1 920	1 000	2000/39	DIRECTIVE 2009/161/EU

8.2 Exposure controls

Respiratory protection
short-term (acute): AX

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Remarks	Higher exposure: Self-contained respirator (breathing apparatus) (DIN EN 133) Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).
Hand protection	In case of contact through splashing:
Suitable material	attached disposable gloves
Remarks	Use gloves once only.
Note	The attached gloves are intended as protection against short-term use. . In case of full contact:
Suitable material	Protective gloves complying with EN 374. Butyl caoutchouc (butyl rubber), NBR (Nitrile rubber), Fluorinated rubber, CR (polychloroprene, chloroprene rubber)
Unsuitable material	PVC or rubber gloves are not recommended.
Material thickness	>= 0,5 mm (adjust to application and duration of use)
Break through time	>120 min
Remarks	Replace when worn.
Note	Request information on glove permeation properties from the glove supplier.. Be aware that in daily use the durability of a chemical resistant protective glove can be notably shorter than the break through time measured according to EN 374, due to the numerous outside influences (e.g. temperature).
Eye protection	Wear closely fitting protective glasses in case of splashes. Safety glasses with side-shields conforming to EN166
Skin and body protection	Long sleeved clothing
Note	Choose body protection according to the amount and concentration of the dangerous substance at the work place.
General protective and hygiene measures	Do not eat, drink or smoke when using this product. Avoid contact with the skin and the eyes. Wash hands and face before breaks and after work and take a shower if necessary. Keep away from food, drink and animal feedingstuffs. Use protective skin cream before handling the product.
Information on environmental protection regulations	No special environmental measures are necessary. see section 6/7
Engineering measures	Provide adequate ventilation.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	aerosol
Colour	various - see label
Odour	characteristic
Odour threshold	not determined
Melting point [°C] / Freezing point [°C]	No data available
Boiling point [°C]	No data available
Flash point [°C]	< 0 (Propellant)
Evaporation rate [kg/(s*m ²)]	No data available
Flammability (solid, gas)	No data available
Explosion limits [Vol-%]	
Lower limit	1,5 %
Upper limit	11 %
Vapour pressure [kPa]	> 500
Vapour density	No data available
Density [g/cm ³]	1.3
Relative density	No data available
Solubility	No data available
Water solubility [g/l]	insoluble
Solubility [g/l]	No data available
Partition coefficient n-octanol /water (log P O/W)	No data available
Autoinflammability	not auto-flammable
Decomposition temperature [°C]	No data available
Explosive properties	not explosive.
Oxidising properties	No

SECTION 10: Stability and reactivity

10.1 Reactivity

Reactivity	No hazardous reaction when handled and stored according to provisions. No decomposition if stored and applied as directed.
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10.2 Chemical stability

Chemical stability Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

10.3 Possibility of hazardous reactions

Hazardous reactions No hazardous reaction when handled and stored according to provisions.

10.4 Conditions to avoid

Conditions to avoid The mixture is chemically stable under recommended conditions of storage, use and temperature.
Direct sources of heat. Risk of bursting.

10.5 Incompatible materials

Materials to avoid Strong acids and oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition products No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Oral toxicity [mg/kg]

Hazardous ingredients

Diphenylmethanediisocyanate, isomers and homologues			
Value	Test criterion	Test species	Source
> 10000	LD50	Rat	Company data

propane	
Value	Source
No data available	Company data

butane	
Value	Source
No data available	Company data

isobutane	
Value	Source
No data available	Company data

Dermal toxicity [mg/kg]

Hazardous ingredients

Diphenylmethanediisocyanate, isomers and homologues				
Value	Test criterion	Test species	Remarks	Source
> 9400	LD50	Rabbit	OECD 402	Company data

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propane	
Value	Source
No data available	Company data

butane	
Value	Source
No data available	Company data

isobutane	
Value	Source
No data available	Company data

Inhalative toxicity [mg/l]**Hazardous ingredients**

Diphenylmethanediisocyanate, isomers and homologues				
Value	Test criterion	Note	Exposure duration	Source
0,49	LC50	OECD 403	4 h	Company data

propane				
Value	Test criterion	Test species	Exposure duration	Source
20	LC50	rat	4 h	Company data

butane				
Value	Test criterion	Test species	Exposure duration	Source
658	LC50	rat	4 h	Company data

isobutane				
Value	Test criterion	Test species	Exposure duration	Source
> 50	LC50	rat	4 h	Company data

dimethyl ether				
Value	Test criterion	Test species	Exposure duration	Source
308	LC50	rat	4 h	Company data

Irritant effect on skin**Hazardous ingredients**

Diphenylmethanediisocyanate, isomers and homologues	
Value	Source
Irritant	Company data

Irritant effect on eyes**Hazardous ingredients**

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Diphenylmethanediisocyanate, isomers and homologues	
Value	Source
irritating	Company data

Irritant effect on the respiratory tract**Hazardous ingredients**

Diphenylmethanediisocyanate, isomers and homologues	
Value	Source
Irritant	Company data

Sensitization**Hazardous ingredients**

Diphenylmethanediisocyanate, isomers and homologues		
Value	Exposure type	Source
sensitising		Company data
sensitising	Inhalation	Company data

Carcinogenic effects**Hazardous ingredients**

Diphenylmethanediisocyanate, isomers and homologues					
Value	Measuring method	Test species	Dosage amount	Route of exposure	Source
Limited evidence of a carcinogenic effect.	OECD 453	Rat	1 mg/m ³	inhalative	Company data

Mutagenicity**Hazardous ingredients**

Diphenylmethanediisocyanate, isomers and homologues	
Value	Source
Tests on bacterial or mammalian cell cultures did not show mutagenic effects.	Company data

Reproduction toxicity**Hazardous ingredients**

Diphenylmethanediisocyanate, isomers and homologues	
Value	Source
No toxicity to reproduction	Company data

Specific target organ toxicity (single exposure) [mg/kg]**Hazardous ingredients**

Diphenylmethanediisocyanate, isomers and homologues			
Route of exposure	Specific effects	Organs affected	Source
Inhalation	May cause respiratory irritation.	Respiratory system	Company data

Specific target organ toxicity (repeated exposure) [mg/kg]

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Hazardous ingredients

Diphenylmethanediisocyanate, isomers and homologues			
Route of exposure	Organs affected	Specific effects	Source
inhalation	Respiratory system	May cause damage to organs through prolonged or repeated exposure.	Company data

SECTION 12: Ecological information**12.1 Toxicity****Toxicity to fish [mg/l]****Hazardous ingredients**

Diphenylmethanediisocyanate, isomers and homologues					
Value	Test criterion	Test species	Measuring method	Exposure duration	Source
> 1000	LC50	Brachydanio rerio (zebra-fish)	OECD Test Guideline 203	96 h	Company data

propane			
Value	Test criterion	Exposure duration	Source
> 1000	LC50	96 h	Company data

butane	
Value	Source
No data available	Company data

isobutane	
Value	Source
27,98	Company data

dimethyl ether	
Value	Source
> 1000	Company data

Toxicity to daphnia [mg/l]**Hazardous ingredients**

Diphenylmethanediisocyanate, isomers and homologues					
Value	Test criterion	Test species	Exposure duration	Measuring method	Source
> 1000	EC50	Daphnia magna (Water flea)	24 h	OECD Test Guideline 202	Company data

propane				
Value	Test criterion	Test species	Exposure duration	Source

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14,22	LC50	Daphnia magna (Big water flea)	48 h	Company data
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butane	
Value	Source
No data available	Company data

isobutane	
Value	Source
14,22	Company data

dimethyl ether	
Value	Source
> 4400	Company data

Toxicity to algae [mg/l]

Hazardous ingredients

Diphenylmethanediisocyanate, isomers and homologues				
Value	Test criterion	Test species	Exposure duration	Source
> 1640	ErC50:	Scenedesmus subspicatus	72 h	Company data

propane				
Value	Test criterion	Test species	Exposure duration	Source
7,71	EC50	Scenedesmus quadricauda (Green algae)	96 h	Company data

butane	
Value	Source
No data available	Company data

isobutane	
Value	Source
7,71	Company data

dimethyl ether	
Value	Source
154,917	Company data

NOEC (daphnia) [mg/l]

Hazardous ingredients

Diphenylmethanediisocyanate, isomers and homologues				
Value	Test species	Measuring method	Exposure duration	Source
> 10	Daphnia magna (Big water flea)	OECD 202	21 d	Company data

12.2 Persistence and degradability

Biodegradability

Hazardous ingredients

Diphenylmethanediisocyanate, isomers and homologues	
Value	Source
Not readily biodegradable.	Company data

12.3 Bioaccumulative potential

Bioaccumulation

Hazardous ingredients

Diphenylmethanediisocyanate, isomers and homologues	
Value	Source
Bioaccumulation is unlikely.	Company data

12.4 Mobility in soil

Mobility

Hazardous ingredients

Diphenylmethanediisocyanate, isomers and homologues	
Mobility	Source
No data available	Company data

12.5 Results of PBT and vPvB assessment

Results of PBT characteristics determination

Hazardous ingredients

Diphenylmethanediisocyanate, isomers and homologues	
Value	Source
This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.	Company data

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Disposal considerations

Do not allow to enter into surface water or drains.
 Dispose of waste according to applicable legislation.
 Empty remaining contents.
 Empty packaging: Where possible recycling is preferred to disposal or incineration.
 Product: Can be disposed of as a solid waste or burned in a suitable installation subject to local regulations.

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Waste Code

According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.

The following Waste Codes are only suggestions:

Product

080501 - waste isocyanates

cured material

200000 - MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS

160504 - gases in pressure containers (including halons) containing dangerous substances

SECTION 14: Transport information

	Land transport ADR/RID	Marine transport IMDG	Air transport ICAO/IATA
14.1 UN-No	1950	1950	1950
14.2 Description of the goods	AEROSOLS	AEROSOLS	Aerosols, flammable
14.3 Transport hazard class(es)	2	2.1	2.1
Remarks	flammable	(maximum 1 L) flammable	
Labels	2.1	2.1	2.1
Category	2		
Classification Code	5F		
Tunnel restriction code	D		
UN proper shipping name		AEROSOLS	Aerosols, flammable
EmS		F-D;S-U	
Stowage category		A	

14.6 Special precautions for user

Precautions

No special measures are necessary.

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

Transport in bulk according to

not applicable

Annex II of MARPOL and the IBC

Code

SECTION 15: Regulatory information

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

Decopaint regulation

not relevant

Carcinogenic hazardous substance as per Annex II GefStoffV

No

Restriction of occupation.

Persons already sensitised to diisocyanates may develop allergic reactions when using this product.

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Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product.
This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.

15.2 Chemical safety assessment

Safety assessment

For this preparation a chemical safety assessment has been carried out. This safety data sheet contains more than one ES in an integrated form. Contents of the exposure scenarios have been included into sections 1.2, 8, 9, 12, 15 and 16 of this safety data sheet.

Additional regulations

This Safety Data Sheet is prepared according to Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

SECTION 16: Other information

Relevant H-phrases

H220: Extremely flammable gas.
H222: Extremely flammable aerosol.
H229: Pressurised container: May burst if heated.
H280: Contains gas under pressure; may explode if heated.
H302: Harmful if swallowed.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H319: Causes serious eye irritation.
H332: Harmful if inhaled.
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335: May cause respiratory irritation.
H351: Suspected of causing cancer .
H373: May cause damage to organs through prolonged or repeated exposure .

Wording of the hazard classes

Acute Tox.: Acute toxicity
Skin Irrit.: Skin irritation
Eye Irrit.: Serious eye irritation
Skin Sens.: Skin sensitization
Carc.: Carcinogenicity
STOT SE: Specific target organ toxicity - single exposure
STOT RE: Specific target organ toxicity - repeated exposure
Flam. Gas: Flammable gas
Aerosol: aerosols

Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 [CLP]

Classification	Evaluation
Aerosol 1; H222 H229	Calculated
Acute Tox. 4; H302	Calculated
Acute Tox. 4; H332	Calculated

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Classification	Evaluation
Skin Irrit. 2; H315	Calculated
Eye Irrit. 2; H319	Calculated
Resp. Sens. 1; H334	Calculated
Skin Sens. 1; H317	Calculated
Carc. 2; H351	Calculated
STOT SE 3; H335	Calculated
STOT RE 2; H373	Calculated

Recommended restrictions None under normal processing.

Modifications of the previous version are denoted with an asterisk (*).

This information is provided in accordance with the current status of our knowledge and experience. The Safety Data Sheet describes products with a view to relevant safety requirements. This information does not constitute a warranty of properties, features or qualities.