

G&B Fissaggi Srl
10029 Villastellone (TO)

Date printed 12.09.2014, Revision 03.01.2014

Version 04. Supersedes version: 03

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SECTION 1: Identification of the substance / preparation and of the company

1.1 Product identifier

GEBFOAM NORDIC B3 manuale

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

1.2.1 Relevant uses

For filling, fixing and insulating gaps and cavities.

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company

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Corso Savona 22
10029 Villastellone (TO) / ITALY
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Address enquiries to

Technical information

info@gebfissaggi.com

Safety Data Sheet

sdb@chemiebuero.de

1.4 Emergency phone

Advisory body

CENTRO ANTIVELENI Ospedale Niguarda: +39 02 66101029 (24h)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Aerosol 1: H222 Extremely flammable aerosol. H229 Pressurised container: May burst if heated.
Carc. 2: H351 Suspected of causing cancer.
Skin Sens. 1: H317 May cause an allergic skin reaction.
Resp. Sens. 1: H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Eye Irrit. 2: H319 Causes serious eye irritation.
Skin Irrit. 2: H315 Causes skin irritation.
STOT SE 3: H335 May cause respiratory irritation.
Lact.: H362 May cause harm to breast-fed children.
STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure through inhalation.
Aquatic Chronic 4: H413 May cause long lasting harmful effects to aquatic life.

2.1.2 Classification according to Directive 67/548/EEC or 1999/45/EC

F+, Extremely flammable - R 12: Extremely flammable.
Xi, Irritant - R 36/37/38: Irritating to eyes, respiratory system and skin.
Xn, carcinogen category 3 - R 40: Limited evidence of a carcinogenic effect.
Sensitizing. - R 42/43: May cause sensitisation by inhalation and skin contact.
Xn, Harmful - R 48/20: Harmful - danger of serious damage to health by prolonged exposure through inhalation.
R 53: May cause long-term adverse effects in the aquatic environment.
R 64: May cause harm to breastfed babies.

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2.2 Label elements

The product is classified and required to be labelled in accordance with EC-Directives

Labelling according to Regulation (EC) 1272/2008

Hazard pictograms



Signal word

DANGER

Contains:

Diphenylmethanediisocyanate, isomeres and homologues

Hazard statements

H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
H351 Suspected of causing cancer.
H317 May cause an allergic skin reaction.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H319 Causes serious eye irritation.
H315 Causes skin irritation.
H335 May cause respiratory irritation.
H362 May cause harm to breast-fed children.
H373 May cause damage to organs through prolonged or repeated exposure through inhalation.
H413 May cause long lasting harmful effects to aquatic life.

Precautionary statements

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.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.
P260 Do not breathe vapours.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/eye protection/face protection.
P284 In case of inadequate ventilation wear respiratory 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.
P308+P311 IF exposed or concerned: Call a POISON CENTER/ doctor/...
P405 Store locked up.
P501 Dispose of contents/container to in accordance with local/regional/national/international regulation.
P102 Keep out of reach of children.

Special labelling

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. 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.
EUH204 Contains isocyanates. May produce an allergic reaction.

2.3 Other hazards

Physico-chemical hazards

Risk of bursting.

Environmental hazards

Does not contain any PBT or vPvB substances.

Other hazards

Further hazards were not determined with the current level of knowledge.

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SECTION 3: Composition / Information on ingredients

Product-type:

The product is a mixture.

Range [%]	Substance
1 - <20	iso-Butane
	CAS: 75-28-5, EINECS/ELINCS: 200-857-2, EU-INDEX: 601-004-00-0
	GHS/CLP: Flam. Gas 1: H220 - Press. Gas (*): H280
	EEC: F+, R 12
10 - <15	Diphenylmethanediisocyanate, isomeres and homologues
	CAS: 32055-14-4, EINECS/ELINCS: 500-079-6, ECB-Nr.: 01-2119457024-46-xxxx
	GHS/CLP: Skin Irrit. 2: H315 - Skin Sens. 1: H317 - Eye Irrit. 2: H319 - Acute Tox. 4: H332 - Resp. Sens. 1: H334 - STOT SE 3: H335 - Carc. 2: H351 - STOT RE 2: H373
	EEC: Xn, R 20-42/43-36/37/38-40-48/20
2,5 - <15	Alkanes, C14-17, chloro
	CAS: 85535-85-9, EINECS/ELINCS: 287-477-0, EU-INDEX: 602-095-00-X, ECB-Nr.: 01-2119519269-33-xxxx
	GHS/CLP: Lact.: H362 - Aquatic Acute 1: H400 - Aquatic Chronic 1: H410, M = 100
	EEC: N, R 64-66-50/53
1 - <20	Dimethyl ether
	CAS: 115-10-6, EINECS/ELINCS: 204-065-8, EU-INDEX: 603-019-00-8, ECB-Nr.: 01-2119472128-37-XXXX
	GHS/CLP: Flam. Gas 1: H220 - Press. Gas (*): H280
	EEC: F+, R 12
1 - <20	Propane
	CAS: 74-98-6, EINECS/ELINCS: 200-827-9, EU-INDEX: 601-003-00-5
	GHS/CLP: Flam. Gas 1: H220 - Press. Gas (*): H280
	EEC: F+, R 12

Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0,1%.
For full text of H-statements and R-phrases: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Remove contaminated soaked clothing immediately and dispose of safely.

Inhalation

Remove the victim into fresh air and keep him calm.
In the event of symptoms seek for medical treatment.

Skin contact

In case of contact with skin wash off immediately with soap and water.
Consult a doctor if skin irritation persists.

Eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.

Ingestion

Seek medical advice immediately.

4.2 Most important symptoms and effects, both acute and delayed

Allergic reactions
Headache
Drowsiness
Vertigo

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Carbon dioxide.
Water spray jet.
Dry powder.
Foam.

Extinguishing media that must not be used

Full water jet.

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5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.
Hydrogen chloride (HCl).
Hydrogen cyanide (HCN).
Nitrogen oxides (NOx).
Bursting aerosols can be forcibly projected from a fire.

5.3 Advice for firefighters

Use self-contained breathing apparatus.
Do not inhale explosion and/or combustion gases.
Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.
Cool containers at risk with water spray jet.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Keep away from all sources of ignition.
Ensure adequate ventilation.
Use personal protective equipment (protective gloves, safety glasses, protective clothing).

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up

Take up mechanically.
Take up residues with absorbent material (e.g. sand).
Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use only in well-ventilated areas.
Keep away from all sources of ignition - Refrain from smoking.
Vapours can form an explosive mixture with air.
Do not eat, drink, smoke or take drugs at work.
Clean skin thoroughly after work, apply skin cream.
Use barrier skin cream.
Take off contaminated clothing and wash before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Prevent penetration into the ground.
Do not store together with oxidizing agents.
Do not store together with food and animal food/diet.
Keep container in a well-ventilated place.
Protect from heat/overheating.
Keep in a cool place, heat causes increase in pressure and risk of bursting.
Keep under lock and key. Should only be accessible to specialists or people authorized by them.

7.3 Specific end use(s)

See product use, SECTION 1.2

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SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

Range [%]	Substance
10 - <15	Diphenylmethanediisocyanate, isomeres and homologues
	CAS: 32055-14-4, EINECS/ELINCS: 500-079-6, ECB-Nr.: 01-2119457024-46-xxxx
	Long-term exposure: 0,02 mg/m ³ , as NCO, Sen
	Short-term exposure (15-minute): 0,07 mg/m ³
1 - <20	Dimethyl ether
	CAS: 115-10-6, EINECS/ELINCS: 204-065-8, EU-INDEX: 603-019-00-8, ECB-Nr.: 01-2119472128-37-XXXX
	Long-term exposure: 400 ppm, 766 mg/m ³
	Short-term exposure (15-minute): 500 ppm, 958 mg/m ³
1 - <20	iso-Butane
	CAS: 75-28-5, EINECS/ELINCS: 200-857-2, EU-INDEX: 601-004-00-0
	Long-term exposure: 600 ppm, 1450 mg/m ³ , (Butane)
	Short-term exposure (15-minute): 750 ppm, 1810 mg/m ³

Ingredients with occupational exposure limits to be monitored (EU)

Range [%]	Substance / EC LIMIT VALUES
1 - <20	Dimethyl ether
	CAS: 115-10-6, EINECS/ELINCS: 204-065-8, EU-INDEX: 603-019-00-8, ECB-Nr.: 01-2119472128-37-XXXX
	Eight hours: 1000 ppm, 1920 mg/m ³

DNEL

Range [%]	Substance
2,5 - <15	Alkanes, C14-17, chloro, CAS: 85535-85-9
	Industrial, dermal, Long-term - systemic effects: 47.9 mg/kg/d.
	Industrial, inhalative, Long-term - systemic effects: 1,6 mg/m ³ .
	general population, oral, Long-term - systemic effects: 0.58 mg/kg/d.
	general population, inhalative, Long-term - systemic effects: 2.0 mg/m ³ .
	general population, dermal, Long-term - systemic effects: 28.75 mg/kg/d.
10 - <15	Diphenylmethanediisocyanate, isomeres and homologues, CAS: 32055-14-4
	Industrial, inhalative, Long-term - local effects: 0,05 mg/m ³ .
	Industrial, inhalative, Long-term - systemic effects: 0,05 mg/m ³ .
	Industrial, inhalative, Acute - local effects: 0,1 mg/m ³ .
	Industrial, inhalative, Acute - systemic effects: 0,1 mg/m ³ .
	Industrial, dermal, Acute - local effects: 28,7 mg/cm ² .
	Industrial, dermal, Acute - systemic effects: 50 mg/kg/day.
1 - <20	Dimethyl ether, CAS: 115-10-6
	Industrial, inhalative, Long-term - systemic effects: 1894 mg/m ³ .
	general population, inhalative, Long-term - systemic effects: 471 mg/m ³ .

PNEC

Range [%]	Substance
2,5 - <15	Alkanes, C14-17, chloro, CAS: 85535-85-9
	soil, 11.9 mg/kg.
	sediment (seawater), 2,6 mg/kg.
	sediment (freshwater), 13 mg/kg.
	seawater, 0,2 µg/l.
	freshwater, 1 µg/l.
10 - <15	Diphenylmethanediisocyanate, isomeres and homologues, CAS: 32055-14-4
	sewage treatment plants (STP), > 1 mg/l.

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	soil, > 1 mg/kg.
	seawater, > 0,1 mg/l.
	freshwater, > 1 mg/l.
1 - <20	Dimethyl ether, CAS: 115-10-6
	sewage treatment plants (STP), 160 mg/l.
	soil, 0,045 mg/kg.
	sediment, 0,681 mg/kg.
	freshwater, 0,155 mg/l.

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation.
Eye protection	Safety glasses.
Hand protection	Butyl rubber, >120 min (EN 374). The details concerned are recommendations. Please contact the glove supplier for further information.
Skin protection	Light protective clothing.
Other	Avoid contact with eyes and skin. Do not inhale vapours. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of these equipments to chemicals should be ascertained with the respective supplier.
Respiratory protection	Breathing apparatus in the event of high concentrations. Short term: filter apparatus, combination filter A-P2.
Thermal hazards	none
Delimitation and monitoring of the environmental exposition	See SECTION 6+7.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	aerosol
Color	not determined
Odor	characteristic
Odour threshold	not applicable
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	not applicable
Flash point [°C]	not applicable
Flammability [°C]	yes
Lower explosion limit	not determined
Upper explosion limit	not determined
Oxidizing properties	no
Vapour pressure/gas pressure [kPa]	not determined
Density [g/ml]	not determined
Bulk density [kg/m³]	not applicable
Solubility in water	reacts with water
Partition coefficient [n-octanol/water]	not determined
Viscosity	not applicable
Relative vapour density determined in air	not applicable
Evaporation speed	not applicable
Melting point [°C]	not applicable
Autoignition temperature [°C]	not applicable
Decomposition temperature [°C]	not applicable

9.2 Other information

none

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SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Because of the high vapour pressure, containers are liable to burst if temperature rises.
Formation of explosive gas/air mixtures.

10.4 Conditions to avoid

See SECTION 7.2.

10.5 Incompatible materials

not determined

10.6 Hazardous decomposition products

No hazardous decomposition products known.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product
ATE-mix, dermal, Rabbit: > 5000 mg/kg.
ATE-mix, oral, Rat: > 2000 mg/kg.
ATE-mix, inhalativ (mist), Rat: > 5 mg/l 4h.

Range [%]	Substance
2,5 - <15	Alkanes, C14-17, chloro, CAS: 85535-85-9 LD50, oral, Rat: > 4000 mg/kg (IUCLID).
1 - <20	iso-Butane, CAS: 75-28-5 LC50, inhalative, Rat: 570000 ppm (IUCLID).
1 - <20	Propane, CAS: 74-98-6 LC50, inhalative, Rat: 658 mg/L (IUCLID).
10 - <15	Diphenylmethanediisocyanate, isomers and homologues, CAS: 32055-14-4 LD50, inhalative, Rat: 310 mg/m³, 4 h OECD 403. LD50, dermal, Rabbit: > 9400 mg/kg OECD 402. LD50, oral, Rat: > 10000 mg/kg OECD 401. NOAEL, inhalative, Rat: 0,2 mg/m³. LOAEL, inhalative, Rat: 1 mg/m³.

Serious eye damage/irritation	not determined
Skin corrosion/irritation	not determined
Respiratory or skin sensitisation	not determined
Specific target organ toxicity — single exposure	not determined
Specific target organ toxicity — repeated exposure	not determined
Mutagenicity	not determined
Reproduction toxicity	not determined
Carcinogenicity	not determined
General remarks	

The product was classified on the basis of the calculation procedure of the preparation directive.
Toxicological data of complete product are not available.
The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

SECTION 12: Ecological information

12.1 Toxicity

Product
EC50, (48h), Daphnia magna: > 1000 mg/l.

Range [%]	Substance
2,5 - <15	Alkanes, C14-17, chloro, CAS: 85535-85-9 LC50, (96h), fish: > 5000 mg/l (IUCLID). EC50, (48h), Daphnia magna: 0,006 mg/l.
10 - <15	Diphenylmethanediisocyanate, isomers and homologues, CAS: 32055-14-4 LC50, (96h), Danio rerio: > 1000 mg/l OECD 203. EC50, (24h), Daphnia magna: > 1000 mg/l OECD 202. EC50, (72h), Scenedesmus subspicatus: > 1640 mg/l OECD 201. NOEC, (21d), Daphnia magna: > 10 mg/l OECD 202.

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12.2 Persistence and degradability

Behaviour in environment compartments	not determined
Behaviour in sewage plant	not determined
Biological degradability	not determined

12.3 Bioaccumulative potential

not determined

12.4 Mobility in soil

not determined

12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

12.6 Other adverse effects

The product contains organically bound halogen in accordance with the formulation.
No classification due to toxicological investigations.
The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

-
Dispose of as hazardous waste.

Waste no. (recommended) 160504* gases in pressure containers (including halons) containing dangerous substances
080501*

Contaminated packaging

Uncontaminated packaging may be taken for recycling.

Waste no. (recommended) 150110*

SECTION 14: Transport information

14.1 UN number

See SECTION 14.2 in accordance with UN shipping name





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14.2 UN proper shipping name

Transport by land according to ADR/RID	UN 1950 AEROSOLS 2.1
- Classification Code	5F
- Label	
- ADR LQ	1 I
- ADR 1.1.3.6 (8.6)	Transport category (tunnel restriction code) 2 (D)
Inland navigation (ADN)	UN 1950 AEROSOLS 2.1
- Classification Code	5F
- Label	
Marine transport in accordance with IMDG	UN 1950 Aerosols 2.1 -
- EMS	F-D, S-U
- Label	
- IMDG LQ	1 I
Air transport in accordance with IATA	UN 1950 Aerosols, flammable 2.1
- Label	

14.3 Transport hazard class(es)

See SECTION 14.2 in accordance with UN shipping name

14.4 Packing group

See SECTION 14.2 in accordance with UN shipping name

14.5 Environmental hazards

See SECTION 14.2 in accordance with UN shipping name

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

not determined

SECTION 15: Regulatory information

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

EEC-REGULATIONS	1967/548 (1999/45); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (Reach); 1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC
TRANSPORT-REGULATIONS	DOT-Classification, ADR (2013); IMDG-Code (2013, 36. Amdt.); IATA-DGR (2013).
NATIONAL REGULATIONS (GB):	EH40/2005 Workplace exposure limits (Second edition, published December 2011). CHIP 3/ CHIP 4
- Observe employment restrictions for people	Observe employment restrictions for mothers-to-be and nursing mothers. Observe employment restrictions for young people.
- VOC (1999/13/CE)	18 - 25 %

15.2 Chemical safety assessment

not applicable

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SECTION 16: Other information

16.1 R-phrases (SECTION 3)

R 12: Extremely flammable.
R 64: May cause harm to breastfed babies.
R 66: Repeated exposure may cause skin dryness or cracking.
R 50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 20: Harmful by inhalation.
R 42/43: May cause sensitisation by inhalation and skin contact.
R 36/37/38: Irritating to eyes, respiratory system and skin.
R 40: Limited evidence of a carcinogenic effect.
R 48/20: Harmful - danger of serious damage to health by prolonged exposure through inhalation.

16.2 Hazard statements (SECTION 3)

H373 May cause damage to organs through prolonged or repeated exposure.
H351 Suspected of causing cancer.
H335 May cause respiratory irritation.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H332 Harmful if inhaled.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H315 Causes skin irritation.
H410 Very toxic to aquatic life with long lasting effects.
H400 Very toxic to aquatic life.
H362 May cause harm to breast-fed children.
H280 Contains gas under pressure; may explode if heated.
H220 Extremely flammable gas.

16.3 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
CAS = Chemical Abstracts Service
CLP = Classification, Labelling and Packaging
DMEL = Derived Minimum Effect Level
DNEL = Derived No Effect Level
EC50 = Median effective concentration
ECB = European Chemicals Bureau
EEC = European Economic Community
EINECS = European Inventory of Existing Commercial Chemical Substances
ELINCS = European List of Notified Chemical Substances
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IC50 = Inhibition concentration, 50%
IMDG = International Maritime Code for Dangerous Goods
IUCLID = International Uniform Chemical Information Database
LC50 = Lethal concentration, 50%
LD50 = Median lethal dose
MARPOL = International Convention for the Prevention of Marine Pollution from Ships
PBT = Persistent, Bioaccumulative and Toxic substance
PNEC = Predicted No-Effect Concentration
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
TLV®/TWA = Threshold limit value – time-weighted average
TLV®STEL = Threshold limit value – short-time exposure limit
VOC = Volatile Organic Compounds
vPvB = very Persistent and very Bioaccumulative

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16.4 Other information

Classification procedure

Aerosol 1: H222 Extremely flammable aerosol. (Bridging principle "Aerosols") H229
Pressurised container: May burst if heated. (Bridging principle "Aerosols")
Carc. 2: H351 Suspected of causing cancer. (Calculation method)
Skin Sens. 1: H317 May cause an allergic skin reaction. (Calculation method)
Resp. Sens. 1: H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. (Calculation method)
Eye Irrit. 2: H319 Causes serious eye irritation. (Calculation method)
Skin Irrit. 2: H315 Causes skin irritation. (Calculation method)
STOT SE 3: H335 May cause respiratory irritation. (Calculation method)
Lact.: H362 May cause harm to breast-fed children. (Calculation method)
STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure through inhalation. (Calculation method)
Aquatic Chronic 4: H413 May cause long lasting harmful effects to aquatic life. (On basis of test data)

Modified position

none



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