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

1.1 Product identifier

blaugelb 1C Gun Foam XXL Class E 500 ml, 750 ml

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

Meesenburg Großhandel KG
Westerallee 162
24941 Flensburg / GERMANY
Phone +49 (0)461 5808-0
Fax +49 (0)461 5808-1101
Homepage www.meesenburg.de
E-mail stuttgart@meesenburg.de

Address enquiries to

Technical information stuttgart@meesenburg.de

Safety Data Sheet sdb@chemiebuero.de

1.4 Emergency telephone number

Advisory body +49 (0)89-19240 (24h) (english)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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.
STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure through inhalation.

2.2 Label elements

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

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.
H373 May cause damage to organs through prolonged or repeated exposure through inhalation.

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

EUH204 Contains isocyanates. May produce an allergic reaction.
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.

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.

SECTION 3: Composition / Information on ingredients

Product-type:

The product is a mixture.

Range [%]	Substance
5 - <20	Tris(2-chloro-1-methylethyl) phosphate
	CAS: 13674-84-5, EINECS/ELINCS: 237-158-7, Reg-No.: 01-2119486772-26-xxxx
	GHS/CLP: Acute Tox. 4: H302
1 - <20	Dimethyl ether
	CAS: 115-10-6, EINECS/ELINCS: 204-065-8, EU-INDEX: 603-019-00-8, Reg-No.: 01-2119472128-37-XXXX
	GHS/CLP: Flam. Gas 1: H220 - Press. Gas (*): H280
10 - <15	Diphenylmethanediisocyanate, isomeres and homologues
	CAS: 32055-14-4, EINECS/ELINCS: 500-079-6, Reg-No.: 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
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
0,5 - <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

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: 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 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

Headache
Drowsiness
Vertigo
Allergic reactions

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.

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.
After worktime and before work breaks the affected skin areas must be thoroughly cleaned.
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

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

Substance
Diphenylmethanediisocyanate, isomeres and homologues
CAS: 32055-14-4, EINECS/ELINCS: 500-079-6, Reg-No.: 01-2119457024-46-XXXX
Long-term exposure: 0,02 mg/m³, as NCO, Sen
Short-term exposure (15-minute): 0,07 mg/m³
Dimethyl ether
CAS: 115-10-6, EINECS/ELINCS: 204-065-8, EU-INDEX: 603-019-00-8, Reg-No.: 01-2119472128-37-XXXX
Long-term exposure: 400 ppm, 766 mg/m³
Short-term exposure (15-minute): 500 ppm, 958 mg/m³
iso-Butane
CAS: 75-28-5, EINECS/ELINCS: 200-857-2, EU-INDEX: 601-004-00-0
Long-term exposure: 600 ppm, 1450 mg/m³, (Butane)
Short-term exposure (15-minute): 750 ppm, 1810 mg/m³

Ingredients with occupational exposure limits to be monitored (EU)

Substance / EC LIMIT VALUES
Dimethyl ether
CAS: 115-10-6, EINECS/ELINCS: 204-065-8, EU-INDEX: 603-019-00-8, Reg-No.: 01-2119472128-37-XXXX
Eight hours: 1000 ppm, 1920 mg/m³

DNEL

Substance
Tris(2-chloro-1-methylethyl) phosphate, CAS: 13674-84-5
Industrial, dermal, Long-term - systemic effects: 2,08 mg/kg bw/day.
Industrial, dermal, Acute - systemic effects: 8 mg/kg bw/day.
Industrial, inhalative, Long-term - systemic effects: 5,82 mg/m³.
Industrial, inhalative, Acute - systemic effects: 22,4 mg/m³.
Diphenylmethanediisocyanate, isomeres and homologues, CAS: 32055-14-4
Industrial, inhalative, Long-term - local effects: 0,05 mg/m³.
Industrial, inhalative, Long-term - systemic effects: 0,05 mg/m³.
Industrial, inhalative, Acute - local effects: 0,1 mg/m³.
Industrial, inhalative, Acute - systemic effects: 0,1 mg/m³.
Industrial, dermal, Acute - local effects: 28,7 mg/cm².
Industrial, dermal, Acute - systemic effects: 50 mg/kg/day.
Dimethyl ether, CAS: 115-10-6
Industrial, inhalative, Long-term - systemic effects: 1894 mg/m³.
general population, inhalative, Long-term - systemic effects: 471 mg/m³.

PNEC

Substance
Tris(2-chloro-1-methylethyl) phosphate, CAS: 13674-84-5
sediment (seaater), 1,34 mg/kg dwt.
sediment, 13,4 mg/kg dwt.
freshwater, 0,64 mg/l.
seawater, 0,064 mg/l.
sewage treatment plants (STP), 7,84 mg/l.

soil, 1,7 mg/kg dwt.
Diphenylmethanediisocyanate, isomeres and homologues, CAS: 32055-14-4
sewage treatment plants (STP), > 1 mg/l.
soil, > 1 mg/kg.
seawater, > 0,1 mg/l.
freshwater, > 1 mg/l.
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. (EN 166:2001)
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 handled. The resistance of this equipment 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. (DIN EN 14387)
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 determined
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	not applicable
Flash point [°C]	not applicable
Flammability (solid, gas) [°C]	yes
Lower explosion limit	not determined
Upper explosion limit	not determined
Oxidising 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

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 iftemperature 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.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

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

Substance
iso-Butane, CAS: 75-28-5
LC50, inhalative, Rat: 570000 ppm (IUCLID).
Tris(2-chloro-1-methylethyl) phosphate, CAS: 13674-84-5
LD50, oral, Rat: > 500 -2000 mg/kg.
LD50, dermal, Rat: > 2000 mg/kg.
LC0, inhalative, Rat: > 7 mg/l 4h.
Propane, CAS: 74-98-6
LC50, inhalative, Rat: 658 mg/L (IUCLID).
Diphenylmethanediisocyanate, isomeres 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

Toxicological data of complete product are not available.
The product was classified on the basis of the calculation procedure of the preparation directive.
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

Substance
Tris(2-chloro-1-methylethyl) phosphate, CAS: 13674-84-5
LC50, (96h), Pimephales promelas: 51 mg/l.
EC50, (48h), Daphnia magna: 131 mg/l.
EC50, (3h), Bacteria: 784 mg/l.
IC50, (72h), Algae: 82 mg/l.
Diphenylmethanediisocyanate, isomeres 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.

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

Accumulation in organisms is not expected.

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 on the basis of the calculation procedure of the preparation directive.
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* 150104

SECTION 14: Transport information

14.1 UN number

Transport by land according to ADR/RID	1950
Inland navigation (ADN)	1950
Marine transport in accordance with IMDG	1950
Air transport in accordance with IATA	1950

14.2 UN proper shipping name

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

14.3 Transport hazard class(es)

Transport by land according to ADR/RID	2
Inland navigation (ADN)	2
Marine transport in accordance with IMDG	2.1
Air transport in accordance with IATA	2.1

14.4 Packing group

Transport by land according to ADR/RID	not applicable
Inland navigation (ADN)	not applicable
Marine transport in accordance with IMDG	not applicable
Air transport in accordance with IATA	not applicable

14.5 Environmental hazards

Transport by land according to ADR/RID	no
Inland navigation (ADN)	no
Marine transport in accordance with IMDG	no
Air transport in accordance with IATA	no

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Transport in bulk according to Annex II of MARPOL 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	1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (REACH); 1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC; (EU) 2015/830
TRANSPORT-REGULATIONS	DOT-Classification, ADR (2015); IMDG-Code (2015, 37. Amdt.); IATA-DGR (2015).
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)	15 - 21 %

15.2 Chemical safety assessment

not applicable

SECTION 16: Other information

16.1 Hazard statements (SECTION 03)

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.
H280 Contains gas under pressure; may explode if heated.
H220 Extremely flammable gas.
H302 Harmful if swallowed.

16.2 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

16.3 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)
STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure through inhalation. (Calculation method)

Modified position

SECTION 2 been added: P308+P311 IF exposed or concerned: Call a POISON CENTER / doctor /…

SECTION 2 been added: P280 Wear protective gloves / eye protection / face protection.

SECTION 2 deleted: P280 Wear protective gloves / protective clothing / eye protection / face protection.

SECTION 4 been added: Seek medical advice immediately.

SECTION 4 deleted: Consult a doctor immediately.

SECTION 7 been added: After worktime and before work breaks the affected skin areas must be thoroughly cleaned.

SECTION 7 deleted: Clean skin thoroughly after work, apply skin cream.

SECTION 7 deleted: Wash hands before breaks and after work.

SECTION 11 been added: 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 been added: Accumulation in organisms is not expected.