

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 26.01.2012

Revision: 26.01.2012

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

- **Product identifier**
- **Trade name** **BOTAMENT P 600 1K**
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the preparation** *Special priming*
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:** *BOTAMENT Systembaustoffe
Am Kruppwald 1
D-46238 Bottrop*

*Tel.: ++49(0)2041 101-90
Fax.: ++49(0)2041 101-988*
- **Informing department:** *Product safety department.
msds@botament.com*
- **Emergency telephone number:** *Tel.: ++49(0)178 310 10 43*

2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.



GHS08 health hazard

Repr. 2 H361d Suspected of damaging the unborn child.

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



GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H336 May cause drowsiness or dizziness.

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

Xn; Harmful

R48/20-63: Harmful: danger of serious damage to health by prolonged exposure through inhalation. Possible risk of harm to the unborn child.

Xi; Irritant

R38: Irritating to skin.

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F; Highly flammable

R11: Highly flammable.

R67: Vapours may cause drowsiness and dizziness.

· **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

· **Classification system:**

The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

· **Label elements**

· **Labelling according to EU guidelines:**

The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV)

· **Code letter and hazard designation of product:**



Xn Harmful
F Highly flammable

· **Hazard-determining components of labelling:**

toluene

· **Risk phrases:**

11 Highly flammable.
38 Irritating to skin.
48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
63 Possible risk of harm to the unborn child.
67 Vapours may cause drowsiness and dizziness.

· **Safety phrases:**

9 Keep container in a well-ventilated place.
16 Keep away from sources of ignition - No smoking.
23 Do not breathe vapour/spray
33 Take precautionary measures against static discharges.
36/37 Wear suitable protective clothing and gloves.

· **Special labelling of certain preparations:**

Contains butyl methacrylate, methyl methacrylate. May produce an allergic reaction.

· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Description:** Mixture of the substances listed below with harmless additions.

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· Dangerous components:

CAS: 108-88-3 EINECS: 203-625-9	toluene Xn R48/20-63-65; Xi R38; F R11 R67 Repr. Cat. 3 Flam. Liq. 2, H225; Repr. 2, H361d; STOT RE 2, H373; Asp. Tox. 1, H304; Skin Irrit. 2, H315; STOT SE 3, H336	50-70%
CAS: 53880-05-0	3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers Xi R43 Skin Sens. 1, H317	<25%
CAS: 71-36-3 EINECS: 200-751-6	butan-1-ol Xn R22; Xi R37/38-41 R10-67 Flam. Liq. 3, H226; Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335+H336	<5%
CAS: 1185-55-3 EINECS: 214-685-0	trimethoxy(methyl)silane Xn R20/22; F R11 Flam. Liq. 2, H225; Acute Tox. 4, H302; Acute Tox. 4, H332	<5%
CAS: 97-88-1 EINECS: 202-615-1	butyl methacrylate Xi R36/37/38; Xi R43 R10 Flam. Liq. 3, H226; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	<1%
CAS: 80-62-6 EINECS: 201-297-1	methyl methacrylate Xn R20/21/22; Xi R37/38; Xi R43; F R11 R33 Flam. Liq. 2, H225; Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	<1%

· Additional information For the wording of the listed risk phrases refer to section 16.

4 First aid measures

· Description of first aid measures

· General information

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After inhalation

Supply fresh air; consult doctor in case of symptoms.

· After skin contact

Instantly wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

· After eye contact

Rinse opened eye for several minutes under running water.

Seek medical treatment.

· After swallowing

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; instantly call for medical help.

· Information for doctor

· Most important symptoms and effects, both acute and delayed

No further relevant information available.

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- **Indication of any immediate medical attention and special treatment needed** *If swallowed or in case of vomiting, danger of entering the lungs*

5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents** *CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.*
- **For safety reasons unsuitable extinguishing agents** *Water with a full water jet.*
- **Special hazards arising from the substance or mixture** *Formation of toxic gases is possible during heating or in case of fire.*
- **Advice for firefighters**
- **Protective equipment:** *Put on breathing apparatus.
Do not inhale explosion gases or combustion gases.*
- **Additional information** *Cool endangered containers with water spray jet.*

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** *Ensure adequate ventilation
Keep away from ignition sources*
- **Environmental precautions:** *Do not allow to enter drainage system, surface or ground water.*
- **Methods and material for containment and cleaning up:** *Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of contaminated material as waste according to item 13.*
- **Reference to other sections** *See Section 8 for information on personal protection equipment.*

7 Handling and storage

- **Handling**
- **Precautions for safe handling** *Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.*
- **Information about protection against explosions and fires:** *Keep ignition sources away - Do not smoke.
The product is not flammable
Fumes can combine with air to form an explosive mixture.
Flammable mixtures may be formed in empty containers.*
- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:** *Prevent any penetration into the ground.*

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- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:** Store in cool, dry conditions in well sealed containers. Protect from heat and direct sunlight. Store in a locked cabinet and out of the reach of children.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**

· **Components with critical values that require monitoring at the workplace:**

108-88-3 toluene (50-70%)

WEL ()	Short-term value: 384 mg/m ³ , 100 ppm Long-term value: 191 mg/m ³ , 50 ppm Sk
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71-36-3 butan-1-ol (<5%)

WEL ()	Short-term value: 154 mg/m ³ , 50 ppm Sk
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- **Additional information:** The lists that were valid during the compilation were used as basis.

- **Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures**

The usual precautionary measures should be adhered to in handling the chemicals.
Wash hands during breaks and at the end of the work.
Avoid contact with the eyes and skin.

- **Breathing equipment:** In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

- **Protection of hands:** Protective gloves.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
After use of gloves apply skin-cleaning agents and skin cosmetics.
Fluorocarbon rubber (Viton)

- **Material of gloves** The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material** The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:** Tightly sealed safety glasses.

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· **Body protection:** Protective work clothing.

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9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

· **Form:** Fluid
· **Colour:** According to product specification
· **Smell:** Characteristic

· **Change in condition**

· **Melting point/Melting range:** Not determined
· **Boiling point/Boiling range:** 111°C

· **Flash point:** 8°C

· **Ignition temperature:** 535°C

· **Self-inflammability:** Product is not selfigniting.

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/steam mixtures is possible.

· **Critical values for explosion:**

· **Lower:** 1.2 Vol %
· **Upper:** 7.0 Vol %

· **Steam pressure at 20°C:** 29 hPa

· **Density at 20°C** 0.95 g/cm³

· **Solubility in / Miscibility with**

· **Water:** Not miscible or difficult to mix

· **Viscosity:**

· **dynamic at 20°C:** 200 mPas

· **Other information** No further relevant information available.

10 Stability and reactivity

· **Reactivity**

· **Chemical stability**

· **Thermal decomposition / conditions to be avoided:**

To avoid thermal decomposition do not overheat.

· **Possibility of hazardous reactions**

Forms explosive gas mixture with air
Danger of containers bursting because of high vapour pressure

· **Conditions to avoid**

No further relevant information available.

· **Incompatible materials:**

No further relevant information available.

· **Hazardous decomposition products:**

No dangerous decomposition products known

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11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

108-88-3 toluene

Oral	LD50	5000 mg/kg (Ratte)
Dermal	LD50	12124 mg/kg (Kaninchen)
Inhalative	LC50/4 h	5320 mg/l (mus)

- **Primary irritant effect:**

- **on the skin:** Irritant for skin and mucous membranes.
- **on the eye:** Irritant effect.
- **Sensitization:** Sensitizing effect by inhalation is possible by prolonged exposure. Sensitizing effect by skin contact is possible by prolonged exposure.

- **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:
Inhalation of concentrated vapours as well as oral intake will lead to anaesthesia-like conditions and headache, dizziness, etc.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:** Do not allow product to reach ground water, water bodies or sewage system.
Danger to drinking water if even small quantities leak into soil.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation** Must be specially treated under adherence to official regulations. Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

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- **Uncleaned packagings:**
- **Recommendation:**

Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning. Packagings that cannot be cleaned are to be disposed of in the same manner as the product.

14 Transport information

· UN-Number · ADR, IMDG, IATA	UN1993
· UN proper shipping name · ADR · IMDG, IATA	1993 FLAMMABLE LIQUID, N.O.S. (TOLUENE) FLAMMABLE LIQUID, N.O.S. (TOLUENE)
· Transport hazard class(es) · ADR · Class · Label	3 (F1) Flammable liquids. 3
· IMDG, IATA · Class · Label	3 Flammable liquids. 3
· Packing group · ADR, IMDG, IATA	III
· Environmental hazards: · Marine pollutant:	No
· Special precautions for user · Kemler Number: · EMS Number:	Warning: Flammable liquids. 33 F-E, S-E
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information: · ADR · Tunnel restriction code	D/E
· UN "Model Regulation":	UN1993, FLAMMABLE LIQUID, N.O.S. (TOLUENE), 3, III

15 Regulatory information

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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· **Relevant phrases**

H225 *Highly flammable liquid and vapour.*
H226 *Flammable liquid and vapour.*
H302 *Harmful if swallowed.*
H304 *May be fatal if swallowed and enters airways.*
H315 *Causes skin irritation.*
H317 *May cause an allergic skin reaction.*
H318 *Causes serious eye damage.*
H319 *Causes serious eye irritation.*
H332 *Harmful if inhaled.*
H335 *May cause respiratory irritation.*
H336 *May cause drowsiness or dizziness.*
H361d *Suspected of damaging the unborn child.*
H373 *May cause damage to organs through prolonged or repeated exposure.*

R10 *Flammable.*
R11 *Highly flammable.*
R20/21/22 *Harmful by inhalation, in contact with skin and if swallowed.*
R20/22 *Harmful by inhalation and if swallowed.*
R22 *Harmful if swallowed.*
R33 *Danger of cumulative effects.*
R36/37/38 *Irritating to eyes, respiratory system and skin.*
R37/38 *Irritating to respiratory system and skin.*
R38 *Irritating to skin.*
R41 *Risk of serious damage to eyes.*
R43 *May cause sensitisation by skin contact.*
R48/20 *Harmful: danger of serious damage to health by prolonged exposure through inhalation.*
R63 *Possible risk of harm to the unborn child.*
R65 *Harmful: may cause lung damage if swallowed.*
R67 *Vapours may cause drowsiness and dizziness.*

· **Department issuing data specification sheet:**

Environment protection department.

· **Contact:**

Mr. Hemming

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
ICAO: International Civil Aviation Organization
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent

· *** Data compared to the previous version altered.**