

## Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 22.03.2025

Version number 20 (replaces version 19)

Revision: 22.03.2025

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

- **1.1 Product identifier**
  - **Trade name:** BK PLAS RAP MIX FPB 25ML\*6 IT
  - **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
  - **Application of the substance / the mixture** Adhesive
  - **1.3 Details of the supplier of the safety data sheet**
  - **Manufacturer/Supplier:**  
UHU GmbH & Co.KG  
Herrmannstraße 7  
D-77815 Bühl (Baden)  
Tel.: 0049-(0)7223-284-0  
E-mail: sds@boltonadhesives.com  
Fax: 0049-(0)7223-284-245
  - **Further information obtainable from:** PSRA
  - **1.4 Emergency telephone number:**  
Bison and Griffon products: +31 88 3235700. Operating hours mo-fr 08:00h-17:00h (CET)  
UHU products: + 49 (0) 30/19240 (Notruf). Operating hours mo-fr 08:00h-17:00h (CET)
- For detailed information contact the national Poison Centre @ <https://poisoncentres.echa.europa.eu/appointed-bodies>

### SECTION 2: Hazards identification

- **2.1 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.



GHS05 corrosion

Skin Corr. 1A H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

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

STOT SE 3 H335 May cause respiratory irritation.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the CLP regulation.

(Contd. on page 2)

EU

## Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 22.03.2025

Version number 20 (replaces version 19)

Revision: 22.03.2025

**Trade name:** BK PLAS RAP MIX FPB 25ML\*6 IT

(Contd. of page 1)

### · Hazard pictograms



GHS02 GHS05 GHS07

### · Signal word Danger

### · Hazard-determining components of labelling:

methyl methacrylate  
methacrylic acid

### · Hazard statements

H225 Highly flammable liquid and vapour.  
H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H335 May cause respiratory irritation.

### · Precautionary statements

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P260 Do not breathe vapours.  
P280 Wear protective gloves.  
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P501 Dispose of contents/container in accordance with national regulations.

### · 2.3 Other hazards

### · Results of PBT and vPvB assessment

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

### · Determination of endocrine-disrupting properties

128-37-0 Butylated hydroxytoluene

List II

## SECTION 3: Composition/information on ingredients

### · 3.2 Mixtures

· **Description:** Adhesive

### · Dangerous components:

CAS: 80-62-6 EINECS: 201-297-1 Index number: 607-035-00-6 Reg.nr.: 01-2119452498-28-XXXX	methyl methacrylate ⚠ Flam. Liq. 2, H225; ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	50-100%
CAS: 79-41-4 EINECS: 201-204-4 Index number: 607-088-00-5	methacrylic acid ⚠ Skin Corr. 1A, H314; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312 Specific concentration limit: STOT SE 3; H335:C ≥ 1 %	≥5-≤10%

(Contd. on page 3)

EU

## Safety data sheet

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Printing date 22.03.2025

Version number 20 (replaces version 19)

Revision: 22.03.2025

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CAS: 128-37-0  
EINECS: 204-881-4  
Reg.nr.: 01-2119555270-46-XXXX  
01-2119565113-46-XXXX

Butylated hydroxytoluene  
 Aquatic Acute 1, H400; Aquatic Chronic 1, H410

(Contd. of page 2)  
≥0.025-<0.25%

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:**  
Supply fresh air and to be sure call for a doctor.  
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** Drink plenty of water and provide fresh air. Call for a doctor immediately.
- **4.2 Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture**  
During heating or in case of fire poisonous gases are produced.
- **5.3 Advice for firefighters**
- **Protective equipment:** Mouth respiratory protective device.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Mount respiratory protective device.  
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Send for recovery or disposal in suitable receptacles.  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Use neutralising agent.  
Dispose contaminated material as waste according to section 13.  
Ensure adequate ventilation.

(Contd. on page 4)

EU

## Safety data sheet

### according to Regulation (EC) No 1907/2006, Article 31

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Version number 20 (replaces version 19)

Revision: 22.03.2025

**Trade name:** BK PLAS RAP MIX FPB 25ML\*6 IT

(Contd. of page 3)

#### 6.4 Reference to other sections

- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

- Ensure good ventilation/exhaustion at the workplace.
- Prevent formation of aerosols.

#### Information about fire - and explosion protection:

- Keep ignition sources away - Do not smoke.
- Protect against electrostatic charges.
- Keep respiratory protective device available.

#### 7.2 Conditions for safe storage, including any incompatibilities

##### Storage:

- Requirements to be met by storerooms and receptacles:** Store in a cool location.

- Information about storage in one common storage facility:** Not required.

##### Further information about storage conditions:

- Keep container tightly sealed.
- Store in cool, dry conditions in well sealed receptacles.

##### Storage class: 3

- 7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### Ingredients with limit values that require monitoring at the workplace:

##### 80-62-6 methyl methacrylate

IOELV	Short-term value: 100 ppm
	Long-term value: 50 ppm

##### DNELs

##### 80-62-6 methyl methacrylate

Oral	Consumer, oral, longterm exposition	8.2 mg/kg bw/day
Dermal	Worker, dermal, longterm exposition	13.67 mg/kg bw/day
	Consumer, dermal, longterm exposition	8.2 mg/kg bw/day
Inhalative	Worker, inhalative, longterm exposition	348.4 mg/m <sup>3</sup>
	Consumer, inhalative, longterm exposition	74.3 mg/m <sup>3</sup>

##### 128-37-0 Butylated hydroxytoluene

Oral	Consumer, oral, longterm exposition	0.25 mg/kg bw/day
Dermal	Worker, dermal, longterm exposition	0.5 mg/kg bw/day
	Consumer, dermal, longterm exposition	0.25 mg/kg bw/day
Inhalative	Worker, inhalative, longterm exposition	1.76 mg/m <sup>3</sup>
	Consumer, inhalative, longterm exposition	0.435 mg/m <sup>3</sup>

(Contd. on page 5)

EU

## Safety data sheet

### according to Regulation (EC) No 1907/2006, Article 31

Printing date 22.03.2025

Version number 20 (replaces version 19)

Revision: 22.03.2025

**Trade name:** BK PLAS RAP MIX FPB 25ML\*6 IT

(Contd. of page 4)

#### · PNECs

##### 128-37-0 Butylated hydroxytoluene

Fresh water	0.000199 mg/l
Fresh water sediment	0.45819 mg/kg dry weight
Marine water	0.0000199 mg/l
Marine sediment	0.04582 mg/kg dry weight
Soil	0.0539 mg/kg
Sewage treatment plant	0.017 mg/l

· **Additional information:** The lists valid during the making were used as basis.

#### · 8.2 Exposure controls

· **Appropriate engineering controls** No further data; see section 7.

· **Individual protection measures, such as personal protective equipment**

· **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

· **Respiratory protection:** Not required.

· **Hand protection**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

Recommended thickness of the material: > 0,12 mm

Nitrile rubber, NBR

· **Penetration time of glove material**

For the mixture of chemicals mentioned below the penetration time has to be at least 10 minutes (Permeation according to EN 374 Part 3: Level 1).

· **Eye/face protection**



Tightly sealed goggles

Goggles recommended during refilling

EU

(Contd. on page 6)

**Safety data sheet**

according to Regulation (EC) No 1907/2006, Article 31

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Version number 20 (replaces version 19)

Revision: 22.03.2025

Trade name: BK PLAS RAP MIX FPB 25ML\*6 IT

(Contd. of page 5)

**SECTION 9: Physical and chemical properties****· 9.1 Information on basic physical and chemical properties****· General Information**

· Physical state	Fluid
· Colour:	Whitish
· Odour:	Pungent
· Odour threshold:	Not determined.
· Melting point/freezing point:	Undetermined.
· Boiling point or initial boiling point and boiling range	101 °C
· Flammability	Highly flammable.
· Lower and upper explosion limit	
· Lower:	2.1 Vol %
· Upper:	12.5 Vol %
· Flash point:	10 °C
· Auto-ignition temperature:	430 °C
· Decomposition temperature:	Not determined.
· pH at 20 °C	3.5
· Viscosity:	
· Kinematic viscosity	Not determined.
· Dynamic at 20 °C:	48000 mPas
· Solubility	
· water:	Not miscible or difficult to mix.
· Partition coefficient n-octanol/water (log value)	Not determined.
· Vapour pressure at 20 °C:	47 hPa
· Density and/or relative density	
· Density at 20 °C:	0.951 g/cm <sup>3</sup>
· Relative density	Not determined.
· Vapour density	Not determined.

**· 9.2 Other information**

All relevant physical data were determined for the mixture. All non-determined data are not measurable or not relevant for the characterization of the mixture.

· Appearance:	
· Form:	Pasty
· Important information on protection of health and environment, and on safety.	
· Ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Solvent content:	
· Solids content:	30.0 %
· Change in condition	
· Evaporation rate	Not determined.

**· Information with regard to physical hazard classes**

· Explosives	Void
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(Contd. on page 7)

EU



## Safety data sheet

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Version number 20 (replaces version 19)

Revision: 22.03.2025

**Trade name:** BK PLAS RAP MIX FPB 25ML\*6 IT

(Contd. of page 6)

· Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Highly flammable liquid and vapour.
· Flammable solids	Void
· Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
· Self-heating substances and mixtures	Void
· Substances and mixtures, which emit flammable gases in contact with water	Void
· Oxidising liquids	Void
· Oxidising solids	Void
· Organic peroxides	Void
· Corrosive to metals	Void
· Desensitised explosives	Void

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

### SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

#### · LD/LC50 values relevant for classification:

##### 80-62-6 methyl methacrylate

Oral	LD50	7872 mg/kg (rat)
Dermal	LD50	>5000 mg/kg (rat)
Inhalative	LC50/4 h	29.8 mg/l (rat)

##### 79-41-4 methacrylic acid

Oral	LD50	1332 mg/kg (mouse)
Dermal	LD50	500 mg/kg (rabbit)

##### 128-37-0 Butylated hydroxytoluene

Oral	LD50	>2930 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rat)

(Contd. on page 8)

EU





## Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 22.03.2025

Version number 20 (replaces version 19)

Revision: 22.03.2025

**Trade name:** BK PLAS RAP MIX FPB 25ML\*6 IT

(Contd. of page 7)

- **Primary irritant effect:**
- **Skin corrosion/irritation**  
Causes severe skin burns and eye damage.
- **Serious eye damage/irritation**  
Causes serious eye damage.
- **Respiratory or skin sensitisation** May cause an allergic skin reaction.
- **Germ cell mutagenicity**  
Not applicable.  
Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** May cause respiratory irritation.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.
- **Additional toxicological information:**
- **Acute effects (acute toxicity, irritation and corrosivity)** Not applicable.
- **Sensitisation** Not applicable.
- **Repeated dose toxicity** Not applicable.
- **11.2 Information on other hazards**

**Endocrine disrupting properties**

128-37-0 Butylated hydroxytoluene

List II

### SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties**  
For information on endocrine disrupting properties see section 11.
- **12.7 Other adverse effects**
- **Additional ecological information:**
- **General notes:**  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.  
Must not reach sewage water or drainage ditch undiluted or unneutralised.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.  
Disposal must be made according to official regulations.

(Contd. on page 9)

EU



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Revision: 22.03.2025

**Trade name:** BK PLAS RAP MIX FPB 25ML\*6 IT

(Contd. of page 8)

- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

· <b>14.1 UN number or ID number</b>	UN2924
· <b>ADR/ADN, IMDG, IATA</b>	
· <b>14.2 UN proper shipping name</b>	2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (METHYL METHACRYLATE MONOMER, STABILIZED, METHACRYLIC ACID, STABILIZED)
· <b>ADR/ADN</b>	
· <b>IMDG, IATA</b>	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (METHYL METHACRYLATE MONOMER, STABILIZED, METHACRYLIC ACID, STABILIZED)
· <b>14.3 Transport hazard class(es)</b>	
· <b>ADR/ADN</b>	
	
· <b>Class</b>	3 (FC) Flammable liquids.
· <b>Label</b>	3+8
· <b>IMDG</b>	
	
· <b>Class</b>	3 Flammable liquids.
· <b>Label</b>	3/8
· <b>IATA</b>	
	
· <b>Class</b>	3 Flammable liquids.
· <b>Label</b>	3 (8)
· <b>14.4 Packing group</b>	
· <b>ADR/ADN, IMDG, IATA</b>	II
· <b>14.5 Environmental hazards:</b>	Not applicable.
· <b>14.6 Special precautions for user</b>	Warning: Flammable liquids.
· <b>Hazard identification number (Kemler code):</b>	338

(Contd. on page 10)

EU

**Safety data sheet**

according to Regulation (EC) No 1907/2006, Article 31

Printing date 22.03.2025

Version number 20 (replaces version 19)

Revision: 22.03.2025

**Trade name:** BK PLAS RAP MIX FPB 25ML\*6 IT

(Contd. of page 9)

· <b>EMS Number:</b>	F-E,S-C
· <b>Segregation groups</b>	(SGG1) Acids
· <b>Stowage Category</b>	B
· <b>Stowage Code</b>	SW2 Clear of living quarters.
· <b>14.7 Maritime transport in bulk according to IMO instruments</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>Quantity limitations</b>	On passenger aircraft/rail: 1 L On cargo aircraft only: 5 L
· <b>ADR/ADN</b>	
· <b>Limited quantities (LQ)</b>	1L
· <b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· <b>Transport category</b>	2
· <b>Tunnel restriction code</b>	D/E
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	1L
· <b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· <b>Remarks:</b>	For substances with class 3 according to IMDG-Code chapter 2.3.2.2 packing group is classified in packing group III, as viscosity is in accordance with requirements (flow time $t > 100s$ ).
· <b>UN "Model Regulation":</b>	UN 2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (METHYL METHACRYLATE MONOMER, STABILIZED, METHACRYLIC ACID, STABILIZED), 3 (8), II

**SECTION 15: Regulatory information**

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category** P5c FLAMMABLE LIQUIDS
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5000 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50000 t
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3
- **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**
- None of the ingredients is listed.

(Contd. on page 11)

EU



## Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

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Version number 20 (replaces version 19)

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**Trade name:** BK PLAS RAP MIX FPB 25ML\*6 IT

(Contd. of page 10)

**· REGULATION (EU) 2019/1148****· Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

**· Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

**· Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients is listed.

**· Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients is listed.

**· 15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.**SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**· Relevant phrases**

H225 Highly flammable liquid and vapour.  
H302 Harmful if swallowed.  
H312 Harmful in contact with skin.  
H314 Causes severe skin burns and eye damage.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H335 May cause respiratory irritation.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.

**· Classification according to Regulation (EC) No 1272/2008**

Flammable liquids

Bridging principles

Skin corrosion/irritation  
Serious eye damage/irritation  
Skin sensitisation  
Specific target organ toxicity (single exposure)

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

**· Department issuing SDS:** PSRA**· Contact:** PSRA**· Date of previous version:** 12.02.2022**· Version number of previous version:** 19**· Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
DNEL: Derived No-Effect Level (REACH)  
PNEC: Predicted No-Effect Concentration (REACH)  
LC50: Lethal concentration, 50 percent

(Contd. on page 12)

EU



6308559 - BK PLAS RAP MIX FPB 25ML\*6 IT

## Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

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Version number 20 (replaces version 19)

Revision: 22.03.2025

**Trade name:** BK PLAS RAP MIX FPB 25ML\*6 IT

(Contd. of page 11)

LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
Flam. Liq. 2: Flammable liquids – Category 2  
Acute Tox. 4: Acute toxicity – Category 4  
Skin Corr. 1A: Skin corrosion/irritation – Category 1A  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Dam. 1: Serious eye damage/eye irritation – Category 1  
Skin Sens. 1: Skin sensitisation – Category 1  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1  
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

EU

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- **1.1 Product identifier**
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  - **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
  - **Application of the substance / the mixture** Adhesive
  - **1.3 Details of the supplier of the safety data sheet**
  - **Manufacturer/Supplier:**  
UHU GmbH & Co.KG  
Herrmannstraße 7  
D-77815 Bühl (Baden)  
Tel.: 0049-(0)7223-284-0  
E-mail: sds@boltonadhesives.com  
Fax: 0049-(0)7223-284-245
  - **Further information obtainable from:** PSRA
  - **1.4 Emergency telephone number:**  
Bison and Griffon products: +31 88 3235700. Operating hours mo-fr 08:00h-17:00h (CET)  
UHU products: + 49 (0) 30/19240 (Notruf). Operating hours mo-fr 08:00h-17:00h (CET)
- For detailed information contact the national Poison Centre @ <https://poisoncentres.echa.europa.eu/appointed-bodies>

### SECTION 2: Hazards identification

- **2.1 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.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

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

STOT SE 3 H335 May cause respiratory irritation.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS02 GHS07

- **Signal word** Danger

(Contd. on page 2)

EU



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Revision: 22.03.2025

**Trade name:** BK PLAS RAP MIX FPB 25ML\*6 IT

(Contd. of page 1)

**Hazard-determining components of labelling:**

methyl methacrylate

**Hazard statements**

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

**Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P261 Avoid breathing vapours.

P280 Wear protective gloves.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P501 Dispose of contents/container in accordance with national regulations.

**2.3 Other hazards****Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**Determination of endocrine-disrupting properties**

128-37-0 Butylated hydroxytoluene

List II

### SECTION 3: Composition/information on ingredients

**3.2 Mixtures****Description:** Adhesive**Dangerous components:**

CAS: 80-62-6 EINECS: 201-297-1 Index number: 607-035-00-6 Reg.nr.: 01-2119452498-28-XXXX	methyl methacrylate ⚠ Flam. Liq. 2, H225; ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	50-100%
CAS: 34562-31-7 EINECS: 252-091-3 Reg.nr.: 01-2120769712-47-XXXX	3,5-diethyl-1,2-dihydro-1-phenyl-2-propylpyridine ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Irrit. 2, H315; Eye Irrit. 2, H319	≥2.5-<10%
CAS: 128-37-0 EINECS: 204-881-4 Reg.nr.: 01-2119555270-46-XXXX 01-2119565113-46-XXXX	Butylated hydroxytoluene ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	≥0.025-<0.25%

**Additional information:** For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

**4.1 Description of first aid measures****General information:** No special measures required.

(Contd. on page 3)

EU



## Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 22.03.2025

Version number 21 (replaces version 20)

Revision: 22.03.2025

**Trade name:** BK PLAS RAP MIX FPB 25ML\*6 IT

(Contd. of page 2)

- **After inhalation:**  
Supply fresh air and to be sure call for a doctor.  
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture**  
No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** No special measures required.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Send for recovery or disposal in suitable receptacles.  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Ensure adequate ventilation.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.
- **Information about fire - and explosion protection:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.

(Contd. on page 4)

EU





## Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 22.03.2025

Version number 21 (replaces version 20)

Revision: 22.03.2025

**Trade name:** BK PLAS RAP MIX FPB 25ML\*6 IT

(Contd. of page 3)

- **Further information about storage conditions:**  
Keep container tightly sealed.  
Store in cool, dry conditions in well sealed receptacles.
- **Storage class:** 3
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

#### · 8.1 Control parameters

##### · Ingredients with limit values that require monitoring at the workplace:

##### **80-62-6 methyl methacrylate**

IOELV	Short-term value: 100 ppm Long-term value: 50 ppm
-------	--

##### · DNELs

##### **80-62-6 methyl methacrylate**

Oral	Consumer, oral, longterm exposition	8.2 mg/kg bw/day
Dermal	Worker, dermal, longterm exposition	13.67 mg/kg bw/day
	Consumer, dermal, longterm exposition	8.2 mg/kg bw/day
Inhalative	Worker, inhalative, longterm exposition	348.4 mg/m <sup>3</sup>
	Consumer, inhalative, longterm exposition	74.3 mg/m <sup>3</sup>

##### **128-37-0 Butylated hydroxytoluene**

Oral	Consumer, oral, longterm exposition	0.25 mg/kg bw/day
Dermal	Worker, dermal, longterm exposition	0.5 mg/kg bw/day
	Consumer, dermal, longterm exposition	0.25 mg/kg bw/day
Inhalative	Worker, inhalative, longterm exposition	1.76 mg/m <sup>3</sup>
	Consumer, inhalative, longterm exposition	0.435 mg/m <sup>3</sup>

##### · PNECs

##### **128-37-0 Butylated hydroxytoluene**

Fresh water	0.000199 mg/l
Fresh water sediment	0.45819 mg/kg dry weight
Marine water	0.0000199 mg/l
Marine sediment	0.04582 mg/kg dry weight
Soil	0.0539 mg/kg
Sewage treatment plant	0.017 mg/l

- **Additional information:** The lists valid during the making were used as basis.

#### · 8.2 Exposure controls

- **Appropriate engineering controls** No further data; see section 7.
- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures:**  
The usual precautionary measures are to be adhered to when handling chemicals.  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Do not inhale gases / fumes / aerosols.

(Contd. on page 5)

EU

## Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 22.03.2025

Version number 21 (replaces version 20)

Revision: 22.03.2025

**Trade name:** BK PLAS RAP MIX FPB 25ML\*6 IT

(Contd. of page 4)

Avoid contact with the skin.

Avoid contact with the eyes and skin.

· **Respiratory protection:** Not required.· **Hand protection**

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

Recommended thickness of the material: &gt; 0,12 mm

Nitrile rubber, NBR

· **Penetration time of glove material**

For the mixture of chemicals mentioned below the penetration time has to be at least 10 minutes (Permeation according to EN 374 Part 3: Level 1).

· **Eye/face protection**

Tightly sealed goggles

Goggles recommended during refilling

### SECTION 9: Physical and chemical properties

#### · 9.1 Information on basic physical and chemical properties

##### · General Information

· **Physical state**

Fluid

· **Colour:**

Yellow

· **Odour:**

Pungent

· **Odour threshold:**

Not determined.

· **Melting point/freezing point:**

Undetermined.

· **Boiling point or initial boiling point and boiling range**

101 °C

· **Flammability**

Highly flammable.

· **Lower and upper explosion limit**· **Lower:**

2.1 Vol %

· **Upper:**

12.5 Vol %

· **Flash point:**

10 °C

· **Auto-ignition temperature:**

430 °C

· **Decomposition temperature:**

Not determined.

· **pH at 20 °C**

5.5

· **Viscosity:**· **Kinematic viscosity**

Not determined.

· **Dynamic at 20 °C:**

0.6 mPas

(Contd. on page 6)

EU

**Safety data sheet**

according to Regulation (EC) No 1907/2006, Article 31

Printing date 22.03.2025

Version number 21 (replaces version 20)

Revision: 22.03.2025

**Trade name:** BK PLAS RAP MIX FPB 25ML\*6 IT

(Contd. of page 5)

· <b>Solubility</b>	
· <b>water at 20 °C:</b>	1.6 g/l
· <b>Partition coefficient n-octanol/water (log value)</b>	Not determined.
· <b>Vapour pressure at 20 °C:</b>	47 hPa
· <b>Density and/or relative density</b>	
· <b>Density at 20 °C:</b>	0.94 g/cm <sup>3</sup>
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.
· <b>9.2 Other information</b>	All relevant physical data were determined for the mixture. All non-determined data are not measurable or not relevant for the characterization of the mixture.
· <b>Appearance:</b>	
· <b>Form:</b>	Pasty
· <b>Important information on protection of health and environment, and on safety.</b>	
· <b>Ignition temperature:</b>	Product is not selfigniting.
· <b>Explosive properties:</b>	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· <b>Solvent content:</b>	
· <b>Solids content:</b>	2.0 %
· <b>Change in condition</b>	
· <b>Evaporation rate</b>	Not determined.
· <b>Information with regard to physical hazard classes</b>	
· <b>Explosives</b>	Void
· <b>Flammable gases</b>	Void
· <b>Aerosols</b>	Void
· <b>Oxidising gases</b>	Void
· <b>Gases under pressure</b>	Void
· <b>Flammable liquids</b>	Highly flammable liquid and vapour.
· <b>Flammable solids</b>	Void
· <b>Self-reactive substances and mixtures</b>	Void
· <b>Pyrophoric liquids</b>	Void
· <b>Pyrophoric solids</b>	Void
· <b>Self-heating substances and mixtures</b>	Void
· <b>Substances and mixtures, which emit flammable gases in contact with water</b>	Void
· <b>Oxidising liquids</b>	Void
· <b>Oxidising solids</b>	Void
· <b>Organic peroxides</b>	Void
· <b>Corrosive to metals</b>	Void
· <b>Desensitised explosives</b>	Void

**SECTION 10: Stability and reactivity**

- **10.1 Reactivity** No further relevant information available.

(Contd. on page 7)

EU

## Safety data sheet

### according to Regulation (EC) No 1907/2006, Article 31

Printing date 22.03.2025

Version number 21 (replaces version 20)

Revision: 22.03.2025

**Trade name:** BK PLAS RAP MIX FPB 25ML\*6 IT

(Contd. of page 6)

- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

### SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

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

#### 80-62-6 methyl methacrylate

Oral	LD50	7872 mg/kg (rat)
Dermal	LD50	>5000 mg/kg (rat)
Inhalative	LC50/4 h	29.8 mg/l (rat)

#### 128-37-0 Butylated hydroxytoluene

Oral	LD50	>2930 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation**  
Causes skin irritation.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** May cause an allergic skin reaction.
- **Germ cell mutagenicity**  
Not applicable.  
Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** May cause respiratory irritation.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.
- **Additional toxicological information:**
- **Acute effects (acute toxicity, irritation and corrosivity)** Not applicable.
- **Sensitisation** Not applicable.
- **Repeated dose toxicity** Not applicable.
- **11.2 Information on other hazards**

- **Endocrine disrupting properties**

128-37-0 Butylated hydroxytoluene

List II

### SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.

(Contd. on page 8)

EU



## Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 22.03.2025

Version number 21 (replaces version 20)

Revision: 22.03.2025

**Trade name:** BK PLAS RAP MIX FPB 25ML\*6 IT



(Contd. of page 7)

- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties**  
For information on endocrine disrupting properties see section 11.
- **12.7 Other adverse effects**
- **Additional ecological information:**
- **General notes:**  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.  
Disposal must be made according to official regulations.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

- |   |   |
|---|---|
| · <b>14.1 UN number or ID number</b>  | UN1133  |
| · <b>ADR/ADN, IMDG, IATA</b>  |   |
| · <b>14.2 UN proper shipping name</b>   | 1133 ADHESIVES solution, special provision 640D |
| · <b>ADR/ADN</b>  | ADHESIVES solution                              |
| · <b>IMDG, IATA</b>   |   |
| · <b>14.3 Transport hazard class(es)</b>  |   |
| · <b>ADR/ADN</b>  |   |
|  |   |
| · <b>Class</b>  | 3 (F1) Flammable liquids.                       |
| · <b>Label</b>  | 3   |
| · <b>IMDG, IATA</b>   |   |
|  |   |
| · <b>Class</b>  | 3 Flammable liquids.                            |

(Contd. on page 9)

EU



## Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 22.03.2025

Version number 21 (replaces version 20)

Revision: 22.03.2025

**Trade name:** BK PLAS RAP MIX FPB 25ML\*6 IT

(Contd. of page 8)

· <b>Label</b>	3
· <b>14.4 Packing group</b> · <b>ADR/ADN, IMDG, IATA</b>	II
· <b>14.5 Environmental hazards:</b>	Not applicable.
· <b>14.6 Special precautions for user</b> · <b>Hazard identification number (Kemler code):</b> · <b>EMS Number:</b> · <b>Stowage Category</b> · <b>Stowage Code</b>	Warning: Flammable liquids. 33 F-E,S-D C SW1 Protected from sources of heat. SW2 Clear of living quarters.
· <b>14.7 Maritime transport in bulk according to IMO instruments</b>	Not applicable.
· <b>Transport/Additional information:</b> · <b>Quantity limitations</b>	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
· <b>ADR/ADN</b> · <b>Limited quantities (LQ)</b> · <b>Excepted quantities (EQ)</b>	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· <b>Transport category</b> · <b>Tunnel restriction code</b>	2 D/E
· <b>IMDG</b> · <b>Limited quantities (LQ)</b> · <b>Excepted quantities (EQ)</b>	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· <b>Remarks:</b>	For substances with class 3 according to IMDG-Code chapter 2.3.2.2 packing group is classified in packing group III, as viscosity is in accordance with requirements (flow time t > 100s).
· <b>UN "Model Regulation":</b>	UN 1133 ADHESIVES SOLUTION, 3, II

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category P5c** FLAMMABLE LIQUIDS
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5000 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50000 t

(Contd. on page 10)

EU



## Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 22.03.2025

Version number 21 (replaces version 20)

Revision: 22.03.2025

**Trade name:** BK PLAS RAP MIX FPB 25ML\*6 IT

(Contd. of page 9)

- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

- **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

- **REGULATION (EU) 2019/1148**

- **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

- **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

- **Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients is listed.

- **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients is listed.

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

### SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**

H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

- **Classification according to Regulation (EC) No 1272/2008**

Flammable liquids

Bridging principles

Skin corrosion/irritation

Skin sensitisation

Specific target organ toxicity (single exposure)

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

- **Department issuing SDS:** PSRA

- **Contact:** PSRA

- **Date of previous version:** 12.02.2022

- **Version number of previous version:** 20

- **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

(Contd. on page 11)

EU





6308559 - BK PLAS RAP MIX FPB 25ML\*6 IT

## Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 22.03.2025

Version number 21 (replaces version 20)

Revision: 22.03.2025

**Trade name:** BK PLAS RAP MIX FPB 25ML\*6 IT

(Contd. of page 10)

ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
DNEL: Derived No-Effect Level (REACH)  
PNEC: Predicted No-Effect Concentration (REACH)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
Flam. Liq. 2: Flammable liquids – Category 2  
Acute Tox. 4: Acute toxicity – Category 4  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
Skin Sens. 1: Skin sensitisation – Category 1  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1  
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

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