

# Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 21.08.2007

Revision: 06.12.2004

## 1 Identification of the substance/preparation and of the company/undertaking

- **Product details**
- **Trade name:** Die spacer blue - Thinner
- **Article number:** 540 0069 0
- **Application of the substance / the preparation** Thinner.
- **Manufacturer/Supplier:**  
 bredent GmbH & Co.KG  
 Weißenhorner Straße 2  
 89250 Senden  
 Tel: +49 (0) 7309/872-0  
 Fax: +49 (0) 7309/872-24
- **Further information obtainable from:**  
 R & D  
 e-mail: R.D@bredent.com
- **Information in case of emergency:** Tel.: +49 (0) 6132-84436 (24 h)

## 2 Hazards identification

- **Hazard description:** Not applicable.
- **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.  
 At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.  
 R 10 Flammable.  
 R 66 Repeated exposure may cause skin dryness or cracking.
- **Classification system:**  
 The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

## 3 Composition/information on ingredients

- **Chemical characterization**
- **Description:** Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

CAS: 123-92-2	isopentyl acetate	R 10-66	50-100%
EINECS: 204-662-3			

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

## 4 First aid measures

- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**  
 Immediately 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. Then consult a doctor.
- **After swallowing:**  
 Call a doctor immediately.  
 Try not to vomit. Swallow activated carbon and sodium sulphate.

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## 5 Fire-fighting measures

- **Suitable extinguishing agents:**  
Foam  
Fire-extinguishing powder  
Carbon dioxide
- **Special hazards caused by the substance, its products of combustion or resulting gases:**  
Can form explosive gas-air mixtures.
- **Protective equipment:** Wear self-contained respiratory protective device.

## 6 Accidental release measures

- **Person-related safety precautions:**  
Use respiratory protective device against the effects of fumes/dust/aerosol.  
Ensure adequate ventilation  
Keep away from ignition sources.  
Wear protective clothing.
- **Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Ensure adequate ventilation.

## 7 Handling and storage

- **Handling:**
- **Information 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.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Keep container tightly sealed.  
Store receptacle in a well ventilated area.

## 8 Exposure controls/personal protection

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

- **Ingredients with limit values that require monitoring at the workplace:**

123-92-2 isopentyl acetate

OES	Short-term value: 541 mg/m <sup>3</sup> , 100 ppm
	Long-term value: 270 mg/m <sup>3</sup> , 50 ppm
	ILV

- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
The usual precautionary measures are to be adhered to when handling chemicals.  
Wash hands before breaks and at the end of work.  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Avoid contact with the eyes and skin.  
Do not eat, drink, smoke or sniff while working.

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Use skin protection cream for skin protection.

Do not inhale gases / fumes / aerosols.

· **Respiratory protection:** Use suitable respiratory protective device when high concentrations are present.

· **Protection of hands:**

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

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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

· **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 through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Tightly sealed goggles

## 9 Physical and chemical properties

### · General Information

<b>Form:</b>	Fluid
<b>Colour:</b>	Blue
<b>Odour:</b>	Fruit-like

### · Change in condition

<b>Melting point/Melting range:</b>	-78.5°C
<b>Boiling point/Boiling range:</b>	141°C

· **Flash point:** 25°C

· **Ignition temperature:** 355°C

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

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

### · Explosion limits:

<b>Lower:</b>	1.0 Vol %
<b>Upper:</b>	10.0 Vol %

· **Vapour pressure at 20°C:** 7 hPa

· **Density at 20°C:** 0.87 g/cm<sup>3</sup>

· **Solubility in / Miscibility with water at 20°C:** 2.12 g/l

## 10 Stability and reactivity

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

No decomposition if used according to specifications.

To avoid thermal decomposition do not overheat.

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- **Dangerous reactions**  
Reacts with alkaline metals.  
Reacts with oxidizing agents.
- **Dangerous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

- **Acute toxicity:**

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

123-92-2 isopentyl acetate

Oral	LD50	16000 mg/kg (rat)
Dermal	LD50	>5000 mg/kg (rat)

- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.

## 12 Ecological information

- **Information about elimination (persistence and degradability):** Not easily biodegradable
- **General notes:**  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

## 13 Disposal considerations

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

## 14 Transport information

- **Land transport ADR/RID (cross-border)**



- **ADR/RID class:** 3 Flammable liquids.
- **Danger code (Kemler):** 30
- **UN-Number:** 1104
- **Packaging group:** III
- **Hazard label:** 3
- **Description of goods:** 1104 AMYL ACETATES, solution

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· **Maritime transport IMDG:**

- **IMDG Class:** 3
- **UN Number:** 1104
- **Label** 3
- **Packaging group:** III
- **EMS Number:** F-E,S-D
- **Marine pollutant:** No
- **Proper shipping name:** AMYL ACETATES

· **Air transport ICAO-TI and IATA-DGR:**

- **ICAO/IATA Class:** 3
- **UN/ID Number:** 1104
- **Label** 3
- **Packaging group:** III
- **Proper shipping name:** AMYL ACETATES

### 15 Regulatory information

· **Labelling according to EU guidelines:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

· **Risk phrases:**

- 10 Flammable.
- 66 Repeated exposure may cause skin dryness or cracking.

· **Safety phrases:**

- 23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).
- 25 Avoid contact with eyes.

### 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 R-phrases**

- 10 Flammable.
- 66 Repeated exposure may cause skin dryness or cracking.

· **Department issuing MSDS:** R & D· **Contact:** R & D

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