



# EC safety data sheet

**Trade name:** Bright Shield Protective Coating 101E

**Product no.:** 101E

**Current version :** 4.0.0, issued: 15.05.2014

**Replaced version:** 4.0.0, issued: 14.05.2014

**Region:** GB

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

### 1.1 Product identifier

**Trade name**

**Bright Shield Protective Coating 101E**

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

**Relevant identified uses of the substance or mixture**

Industrial use

Coatings

### 1.3 Details of the supplier of the safety data sheet

**Address**

Trinity Shields LLC  
5729 Lebanon Road  
Frisco, TX  
USA

75034

Telephone no. +1 347 234 5399

Fax no. +1 212 905 4367

**Advice on Safety Data Sheet**

sdb\_info@umco.de

**Identification of the supplier**

**Address**

EuroGlue Partner UG  
Meisenrain 6  
79618 Rheinfeldern  
Deutschland

Telephone no. +49 7623 90 90 23

Fax no. +49 7623 90 90 57

Email Euroglurpartner@aol.com

### 1.4 Emergency telephone number

For medical advice (in German and English):

+49 (0)551 192 40 (Giftinformationszentrum Nord)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Classification in accordance with Regulation (EC) No 1272/2008 (CLP)**

Flam. Liq. 2; H225

STOT SE 3; H336

**Classification in accordance with Directive 67/548/EEC or 1999/45/EC**

F; R11

R66

R67



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## 2.2 Label elements

### Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)

#### Hazard pictograms



GHS02



GHS07

#### Signal word

Danger

#### Hazardous component(s) to be indicated on label:

n-butyl acetate

#### Hazard statements

H225 Highly flammable liquid and vapour.  
H336 May cause drowsiness or dizziness.

#### Hazard statements (EU)

EUH066 Repeated exposure may cause skin dryness or cracking.

#### Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P312 Call a POISON CENTER/doctor if you feel unwell.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.

## 2.3 Other hazards

No data available.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not applicable. The product is not a substance.

### 3.2 Mixtures

#### Chemical characterization

Mixture (preparation)



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## Hazardous ingredients

No	Substance name			Additional information	
	CAS / EC / Index / REACH no	Classification 67/548/EEC	Classification (EC) 1272/2008 (CLP)	Concentration	%
1	<b>TERT.-BUTYL ACETATE</b>				
	540-88-5 208-760-7 607-026-00-7 -	F; R11 R66	EUH066 Flam. Liq. 2; H225	> 10.00 - < 30.00	%-b.w.
2	<b>n-butyl acetate</b>				
	123-86-4 204-658-1 607-025-00-1 -	R10 R66 R67	EUH066 Flam. Liq. 3; H226 STOT SE 3; H336	> 10.00 - < 30.00	%-b.w.
3	<b>isobutyl acetate</b>				
	110-19-0 203-745-1 607-026-00-7 -	F; R11 R66	EUH066 Flam. Liq. 2; H225	> 10.00 - < 30.00	%-b.w.

Full Text for all R-phrases , H-phrases and EUH-phrases: pls. see section 16

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
1	C	-	-	-
3	C	-	-	-

Full text for the notes: pls. see section 16 "Notes relating to the identification, classification and labelling of substances ((EC) No 1272/2008, Annex VI)".

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

In all cases of doubt, or when sickness symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. Remove soiled or soaked clothing immediately.

#### After inhalation

Remove to fresh air, keep patient warm and at rest. Irregular breathing/no breathing: artificial respiration. If unconscious place in recovery position and seek medical advice.

#### After skin contact

Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners!

#### After eye contact

Remove contact lenses, irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart and seek medical advice.

#### After ingestion

Do not induce vomiting. Call a doctor immediately. Never give anything by mouth to an unconscious person. Keep at rest.

### 4.2 Most important symptoms and effects, both acute and delayed

No data available.

### 4.3 Indication of any immediate medical attention and special treatment needed

No data available.



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### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

**Suitable extinguishing media**

Alcohol resistant foam, CO<sub>2</sub>, powders, water spray

**Unsuitable extinguishing media**

High power water jet

#### 5.2 Special hazards arising from the substance or mixture

Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

#### 5.3 Advice for firefighters

Cool endangered containers with water in case of fire. Appropriate breathing apparatus may be required. **DO NOT ALLOW RUN-OFF FROM FIRE FIGHTING TO ENTER DRAINS OR WATER COURSES;** Wear protective clothing.

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel**

Exclude sources of ignition and ventilate the area. Do not inhale vapours. Refer to protective measures listed in sections 7 and 8.

**For emergency responders**

No data available. Personal protective equipment (PPE) - see Section 8.

#### 6.2 Environmental precautions

Do not allow to enter drains. If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations.

#### 6.3 Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Clean preferably with a detergent; avoid use of solvents.

#### 6.4 Reference to other sections

No data available.

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

**Advice on safe handling**

Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentrations higher than the occupational exposure limits. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Comply with the health and safety at work laws.

**General protective and hygiene measures**

Do not eat or drink during work - no smoking. When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process until such time as the particulates and solvent vapour concentration has fallen below the exposure limits.

**Advice on protection against fire and explosion**

Preparation may charge electrostatically: always use earthing leads when transferring from one container to another. Operators should wear anti-static footwear and clothing. No sparking tools should be used. Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.



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## 7.2 Conditions for safe storage, including any incompatibilities

### Technical measures and storage conditions

Always keep in containers of same material as the original one. See also instructions on the label. Avoid heating and direct sunlight. Keep container dry in a cool, well-ventilated place.

### Requirements for storage rooms and vessels

Electrical equipment should be protected to the appropriate standard. Floors should be of the conducting type. Keep container tightly closed. Never use pressure to empty: container is not a pressure vessel. No smoking. Prevent unauthorized access! Containers which are opened must be carefully closed and kept upright to prevent leakage.

### Advice on storage assembly

Keep away from oxidizing agents, from strongly alkaline and strongly acid materials.

## 7.3 Specific end use(s)

No data available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limit values

No	Substance name	CAS no.	EC no.
1	TERT.-BUTYL ACETATE	540-88-5	208-760-7
List of approved workplace exposure limits (WELs) / EH40			
tert-Butyl acetate			
	STEL	1210 mg/m <sup>3</sup>	250 ml/m <sup>3</sup>
	TWA	966 mg/m <sup>3</sup>	200 ml/m <sup>3</sup>
2	n-butyl acetate	123-86-4	204-658-1
List of approved workplace exposure limits (WELs) / EH40			
Butyl acetate			
	STEL	966 mg/m <sup>3</sup>	200 ml/m <sup>3</sup>
	TWA	724 mg/m <sup>3</sup>	150 ml/m <sup>3</sup>
3	isobutyl acetate	110-19-0	203-745-1
List of approved workplace exposure limits (WELs) / EH40			
Isobutyl acetate			
	STEL	903 mg/m <sup>3</sup>	187 ml/m <sup>3</sup>
	TWA	724 mg/m <sup>3</sup>	150 ml/m <sup>3</sup>

### 8.2 Exposure controls

#### Appropriate engineering controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

#### Personal protective equipment

##### Respiratory protection

If workers are exposed to concentrations above the exposure limit they must use appropriate, certified respirators. Use half-mask model with cartridge or air-fed.

##### Eye / face protection

Wear safety goggles to protect against solvent splashes.



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## Hand protection

Adhere to the professional organisation rule "Use of protective gloves".  
Appropriate chemicals resistant glove tested in compliance with EN 374.  
Recommendation for protection against components generally found in the products:

For short-term contact (i.e. splash protection):

Appropriate material: nitrile rubber, Neopren  
Material thickness: > 0.4 mm  
Breakthrough time: > 480 min

Before use, the protective glove should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties).

Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves.

Protective gloves shall be replaced immediately when physically damaged or worn. Preventive hand protection (skin protection cream) recommended. Wash immediately contaminated skin).

Design operations thus to avoid permanent use of protective gloves.

## Other

Personal should wear antistatic clothings made of natural fiber or of high temperature resistant synthetic fiber. All parts of the body should be washed after contact.

## Environmental exposure controls

No data available.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Form/Colour</b>	
liquid	
clear; yellowish	
<b>Odour</b>	
of solvents	
<b>Odour threshold</b>	
No data available	
<b>pH value</b>	
No data available	
<b>Boiling point / boiling range</b>	
Value	97.8 - 127 °C
<b>Melting point / melting range</b>	
No data available	
<b>Setting point / solidification range</b>	
Value	-62 °C
<b>Decomposition point / decomposition range</b>	
No data available	
<b>Flash point</b>	
Value	16 °C
<b>Auto-ignition temperature</b>	
Value	421 °C



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<b>Oxidising properties</b>			
No data available			
<b>Explosive properties</b>			
No data available			
<b>Flammability (solid, gas)</b>			
No data available			
<b>Lower flammability or explosive limits</b>			
Value	1.30	% vol	
<b>Upper flammability or explosive limits</b>			
Value	10.50	% vol	
<b>Vapour pressure</b>			
Value	4.1	kPa	
Reference temperature	20	°C	
<b>Vapour density</b>			
Value	3.7	-	4.1
<b>Evaporation rate</b>			
No data available			
<b>Relative density</b>			
Value	0.954		
<b>Density</b>			
No data available			
<b>Solubility in water</b>			
Remarks	insoluble		
<b>Solubility(ies)</b>			
No data available			
<b>Partition coefficient: n-octanol/water</b>			
No data available			
<b>Viscosity</b>			
Value	23	-	27 s
Reference temperature		24	°C
Type	dynamic		
Method	#3 Zahn		
Value	190	-	210 cP
Reference temperature		24	°C
Type	kinematic		
Method	#2 Zahn		

## 9.2 Other information

<b>Other information</b>
No data available.



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### SECTION 10: Stability and reactivity

**10.1 Reactivity**

No data available.

**10.2 Chemical stability**

No data available.

**10.3 Possibility of hazardous reactions**

No data available.

**10.4 Conditions to avoid**

Stable under recommended storage and handling conditions(See section 7).

**10.5 Incompatible materials**

Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

**10.6 Hazardous decomposition products**

When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.





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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

**Acute oral toxicity**

No data available

**Acute dermal toxicity**

No data available

**Acute inhalational toxicity**

No data available

**Skin corrosion/irritation**

No data available

**Serious eye damage/irritation**

No data available

**Respiratory or skin sensitisation**

No data available

**Germ cell mutagenicity**

No data available

**Reproduction toxicity**

No data available

**Carcinogenicity**

No data available

**STOT-single exposure**

No data available

**STOT-repeated exposure**

No data available

**Aspiration hazard**

No data available

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

Exposure of vapour concentration in excess of the stated OEL's may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue muscular weakness, drowsiness and in extreme cases, loss of consciousness. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage.

**Other information**

The product was classified in toxicological terms on the basis of the results of the calculation procedure outlined within General Directive on Preparations (1999/45/EC).



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## SECTION 12: Ecological information

### 12.1 Toxicity

<b>Toxicity to fish (acute)</b>
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No data available
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<b>Toxicity to fish (chronic)</b>
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No data available
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<b>Toxicity to Daphnia (acute)</b>
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No data available
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<b>Toxicity to Daphnia (chronic)</b>
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No data available
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<b>Toxicity to algae (acute)</b>
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No data available
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<b>Toxicity to algae (chronic)</b>
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No data available
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<b>Bacteria toxicity</b>
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No data available
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### 12.2 Persistence and degradability

No data available.

### 12.3 Bioaccumulative potential

No data available.

### 12.4 Mobility in soil

No data available.

### 12.5 Results of PBT and vPvB assessment

No data available.

### 12.6 Other adverse effects

No data available.

### 12.7 Other information

<b>Other information</b>
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There are no data available on the preparation itself. For components which are dangerous for the environment see section 3.
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The product should not be allowed to enter drains or water courses.
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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

Waste code	080111	Waste paint and varnish containing organic solvents or other dangerous substances
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The listed waste code numbers, according to the European Waste Catalogue, are to be understood as a recommendation. A final decision must be made in agreement with the regional waste disposal company.

#### Packaging

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse. Packaging that cannot be cleaned should be disposed of in agreement with the regional waste disposal company.



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### SECTION 14: Transport information

#### 14.1 Transport ADR/RID/ADN

Class	3
Classification code	F1
Packing group	II
Hazard identification no.	33
UN number	UN1866
Technical name	RESIN SOLUTION
Special Provision 640	640D
Tunnel restriction code	D/E
Label	3

#### 14.2 Transport IMDG

Class	3
Packing group	II
UN number	UN1866
Proper shipping name	RESIN SOLUTION
EmS	F-E+S-E
Label	3

#### 14.3 Transport ICAO-TI / IATA

Class	3
Packing group	II
UN number	UN1866
Proper shipping name	Resin solution
Label	3

#### 14.4 Other information

No data available.

#### 14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

#### 14.6 Special precautions for user

No data available.

#### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not relevant

### SECTION 15: Regulatory information

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

##### EU regulations

##### **Restriction of occupation**

Adhere to the national sanitary and occupational safety regulations when using this product.

##### **National regulations**

##### **Other national regulations**

The information given in this material safety data sheet does not release the user from its duty of risk assessment and control in the work place defined in other health and safety law.

#### 15.2 Chemical safety assessment

No data available.



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### SECTION 16: Other information

**Full text of the R-, H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)**

R10	Flammable.
R11	Highly flammable.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.
H226	Flammable liquid and vapour.

**Notes relating to the identification, classification and labelling of substances and mixtures ((EC) No 1272/2008, Annex VI)**

C	Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.
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**Department issuing safety data sheet**

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This information is based on our present state of knowledge and experience.

The security data sheet describes products with a view to the security requirements.

However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.