

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Asplit® 876 Solution

Revision date: 19.04.2017

Product code: 00359-1209

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

### 1.1. Product identifier

Asplit® 876 Solution

**Art.-No.**

592 0605

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

**Use of the substance/mixture**

Mortar

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

Company name: TIP TOP Oberflächenschutz Elbe GmbH

Street: Heuweg 4

Place: D-06886 Wittenberg

Telephone: +49(0)3491/635-50

Telefax: +49(0)3491/635-552

Responsible Department: Responsible for the safety data sheet: sds@gbk-ingelheim.de

### 1.4. Emergency telephone number:

INTERNATIONAL: +49 - (0) 6132 - 84463, GBK GmbH (24h - 7d/w - 365d/a)  
England and Wales: NHS Direct - 0845 4647; Scotland: NHS 24 - 08454 24 24  
24

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**Regulation (EC) No. 1272/2008**

Hazard categories:

Flammable liquid: Flam. Liq. 3

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Respiratory or skin sensitisation: Skin Sens. 1

Reproductive toxicity: Repr. 2

Hazardous to the aquatic environment: Aquatic Chronic 2

Hazard Statements:

Flammable liquid and vapour.

Causes serious eye irritation.

Causes skin irritation.

May cause an allergic skin reaction.

Suspected of damaging the unborn child.

Toxic to aquatic life with long lasting effects.

### 2.2. Label elements

**Regulation (EC) No. 1272/2008****Hazard components for labelling**Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight  $\leq$  700)  
1,3,5-trioxan, trioxymethylene**Signal word:** Warning**Pictograms:****Hazard statements**

H226

Flammable liquid and vapour.

H319

Causes serious eye irritation.

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|       |  |
|-------|--|
| H315  | Causes skin irritation.                          |
| H317  | May cause an allergic skin reaction.             |
| H361d | Suspected of damaging the unborn child.          |
| H411  | Toxic to aquatic life with long lasting effects. |

**Precautionary statements**

|                |  |
|----------------|--|
| P201           | Obtain special instructions before use.  |
| P202           | Do not handle until all safety precautions have been read and understood.  |
| P210           | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.                                   |
| P280           | Wear protective gloves/protective clothing/eye protection/face protection.   |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.                              |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P308+P313      | IF exposed or concerned: Get medical advice/attention.   |
| P273           | Avoid release to the environment.  |
| P405           | Store locked up.   |

**Special labelling of certain mixtures**

|        |  |
|--------|--|
| EUH205 | Contains epoxy constituents. May produce an allergic reaction. |
|--------|--|

**2.3. Other hazards**

Vapours may form explosive mixture with air.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures****Chemical characterization**

Epoxy resin formulation, contains solvents

**Hazardous components**

| CAS No     | Chemical name   | Quantity     |                  |        |
|------------|---|--------------|------------------|--------|
|            | EC No   | Index No     | REACH No         |        |
|            | Classification according to Regulation (EC) No. 1272/2008 [CLP]   |              |                  |        |
| 25068-38-6 | Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <= 700)   |              |                  | < 90 % |
|            | 500-033-5   | 603-074-00-8 | 01-2119456619-26 |        |
|            | Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, Aquatic Chronic 2; H315 H319 H317 H411   |              |                  |        |
| 110-88-3   | 1,3,5-trioxan, trioxymethylene  |              |                  | < 15 % |
|            | 203-812-5   | 605-002-00-0 | 01-2119487944-20 |        |
|            | Flam. Sol. 1, Repr. 2, STOT SE 3; H228 H361d H335   |              |                  |        |
| 1330-20-7  | Xylene (mixed isomers)  |              |                  | < 10 % |
|            | 215-535-7   | 601-022-00-9 | 01-2119488216-32 |        |
|            | Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3, STOT RE 2, Asp. Tox. 1; H226 H312 H332 H315 H319 H335 H373 H304 |              |                  |        |

Full text of H and EUH statements: see section 16.

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

Remove contaminated soaked clothing immediately.  
In the event of persistent symptoms receive medical treatment.

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**After inhalation**

Move to fresh air in case of accidental inhalation of vapours or decomposition products.  
In the event of symptoms refer for medical treatment.

**After contact with skin**

Wash off immediately with soap and plenty of water.  
Consult a doctor if skin irritation persists.

**After contact with eyes**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
Seek medical treatment by eye specialist.

**After ingestion**

Summon a doctor immediately.  
Never give anything by mouth to an unconscious person.  
Induce vomiting only upon the advice of a physician.

**4.2. Most important symptoms and effects, both acute and delayed**

Causes serious eye irritation.  
Causes skin irritation.  
May cause an allergic skin reaction.  
Suspected of damaging the unborn child.

**4.3. Indication of any immediate medical attention and special treatment needed**

Treat symptoms.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Foam, carbon dioxide (CO<sub>2</sub>), dry chemical, water-spray.

**Unsuitable extinguishing media**

Full water jet.

**5.2. Special hazards arising from the substance or mixture**

Fire may produce:  
carbon monoxide and carbon dioxide

**5.3. Advice for firefighters**

Use breathing apparatus with independent air supply.  
Protective suit.

**Additional information**

Cool containers at risk with water spray jet.  
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

In case of vapour formation use respirator.  
Ensure adequate ventilation.  
Use personal protective clothing.

**6.2. Environmental precautions**

Clean contaminated surface thoroughly.  
Do not discharge into the drains/surface waters/ground water.

**6.3. Methods and material for containment and cleaning up**

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).  
Shovel into suitable container for disposal.

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**6.4. Reference to other sections**

Observe protective instructions (see Sections 7 and 8).  
Information for disposal see section 13.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

Keep container tightly closed.  
Use only in thoroughly ventilated areas.  
Avoid contact with skin, eyes and clothing.

**Advice on protection against fire and explosion**

Keep product and empty container away from heat and sources of ignition.  
Do not smoke.  
Take precautionary measures against static discharges.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep container tightly closed in a dry, cool and well-ventilated place.  
Protect against direct sun radiation.

**Advice on storage compatibility**

Incompatible with:  
Oxidizing agents  
Amines  
Acids and bases.

**Further information on storage conditions**

Keep away from food, drink and animal feeding stuffs.

**7.3. Specific end use(s)**

Mortar

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Exposure limits (EH40)**

| CAS No    | Substance             | ppm | mg/m <sup>3</sup> | fibres/ml | Category      | Origin |
|-----------|-----------------------|-----|-------------------|-----------|---------------|--------|
| 1330-20-7 | Xylene: mixed isomers | 50  | 220               |           | TWA (8 h)     | WEL    |
|           |                       | 100 | 441               |           | STEL (15 min) | WEL    |

**Biological Monitoring Guidance Values (EH40)**

| CAS No    | Substance                           | Parameter            | Value           | Test material | Sampling time |
|-----------|-------------------------------------|----------------------|-----------------|---------------|---------------|
| 1330-20-7 | Xylene, o-, m-, p- or mixed isomers | methyl hippuric acid | 650<br>mmol/mol | urine         | Post shift    |

**8.2. Exposure controls****Appropriate engineering controls**

Ensure adequate ventilation, especially in confined areas.

**Protective and hygiene measures**

Do not inhale vapours.  
Wash hands before breaks and immediately after handling the product.  
When using do not eat, drink or smoke.

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Avoid contact with skin, eyes and clothing.  
Remove and wash contaminated clothes before re-use.

**Eye/face protection**

Tightly fitting goggles (EN 166).  
Eye wash bottle with pure water (EN 15154).

**Hand protection**

Protective gloves resistant to chemicals made off nitrile, Minimum coat thickness 0.4 mm, Permeation resistance (wear duration) approx. 480 minutes, i.e. protective glove <Camatril 735> made by www.kcl.de. This recommendation refers exclusively to the chemical compatibility and the lab test conforming to EN 374 carried out under lab conditions.  
Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

**Skin protection**

Long sleeved clothing (EN 368).

**Respiratory protection**

No personal respiratory protective equipment normally required.  
In case of insufficient ventilation or long-term effect wear suitable respiratory equipment. Filter type A-P2 (EN 141)

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

|                 |                |
|-----------------|----------------|
| Physical state: | Liquid         |
| Colour:         | Colourless     |
| Odour:          | Characteristic |

|           |                    |
|-----------|--------------------|
|           | <b>Test method</b> |
| pH-Value: | 4,5 (200 g/l)      |

**Changes in the physical state**

|  |                                |           |
|--|--------------------------------|-----------|
| Initial boiling point and boiling range: | > 110 °C                       | DIN 53171 |
| Flash point:                             | approx. 33 °C                  | ISO 2719  |
| Lower explosion limits:                  | 1,0 vol. %                     | *)        |
| Upper explosion limits:                  | 8,0 vol. %                     | *)        |
| Ignition temperature:                    | > 300 °C                       |           |
| Vapour pressure:<br>(at 20 °C)           | 0,3 hPa                        |           |
| Density (at 20 °C):                      | approx. 1,12 g/cm <sup>3</sup> | ISO 2811  |
| Water solubility:<br>(at 20 °C)          | Miscible                       |           |
| Viscosity / dynamic:<br>(at 25 °C)       | 350 - 450 mPa·s                | DIN 53015 |

**9.2. Other information**

No data available.

**SECTION 10: Stability and reactivity****10.1. Reactivity**

No decomposition if stored and applied as directed.

**10.2. Chemical stability**

Stable under normal conditions.

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**10.3. Possibility of hazardous reactions**

Reactions with acids, alkalies and oxidizing agents  
Reactions with amines.

**10.4. Conditions to avoid**

To avoid thermal decomposition, do not overheat.  
Protect against direct sun radiation.

**10.5. Incompatible materials**

Strong oxidizing agents  
Acids and bases.  
Amines

**10.6. Hazardous decomposition products**

Carbon monoxide and carbon dioxide

**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Acute toxicity**

Based on available data, the classification criteria are not met.  
No toxicological data available.  
Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight  $\leq$  700)  
LD50/oral/rat: 11400 mg/kg  
LD50/dermal/rabbit:  $>$  2000 mg/kg

**Irritation and corrosivity**

Causes serious eye irritation.  
Causes skin irritation.

**Sensitising effects**

May cause an allergic skin reaction. (Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight  $\leq$  700))

**Carcinogenic/mutagenic/toxic effects for reproduction**

Suspected of damaging the unborn child. (1,3,5-trioxan, trioxymethylene)  
Germ cell mutagenicity: Based on available data, the classification criteria are not met.  
Carcinogenicity: Based on available data, the classification criteria are not met.

**STOT-single exposure**

Based on available data, the classification criteria are not met.

**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 information on tests**

Classification in compliance with the assessment procedure specified in the Regulation (EC) no 1272/2008.

**SECTION 12: Ecological information****12.1. Toxicity**

Ecological data are not available.  
Toxic to aquatic life with long lasting effects.  
Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight  $\leq$  700)  
LC50/Oncorhynchus mykiss/96 h = 2 mg/l  
EC50/Daphnia magna/48 h = 1,8 mg/l  
ErC50/Scenedesmus capricornutum/72 h = 11 mg/l

**12.2. Persistence and degradability**

Not readily biodegradable.

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#### 12.3. Bioaccumulative potential

No data available.

#### 12.4. Mobility in soil

No data available.

#### 12.5. Results of PBT and vPvB assessment

According to Regulation (EC) No 1907/2006 (REACH) none of the substances, contained in this product are a PBT / vPvB substance.

#### 12.6. Other adverse effects

Hazardous water pollutant.

#### **Further information**

Do not flush into surface water or sanitary sewer system.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

##### **Advice on disposal**

Can be incinerated, when in compliance with local regulations.  
Where possible recycling is preferred to disposal.

##### **Waste disposal number of waste from residues/unused products**

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste

##### **Contaminated packaging**

Contaminated packagings are to be treated like the product itself.  
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 like the product.

### SECTION 14: Transport information

#### **Land transport (ADR/RID)**

|   |                |
|---|----------------|
| <b><u>14.1. UN number:</u></b>                  | UN 1866        |
| <b><u>14.2. UN proper shipping name:</u></b>    | Resin solution |
| <b><u>14.3. Transport hazard class(es):</u></b> | 3              |
| <b><u>14.4. Packing group:</u></b>              | III            |
| Hazard label:                                   | 3              |



|                          |             |
|--------------------------|-------------|
| Classification code:     | F1          |
| Limited quantity:        | 5 L / 30 kg |
| Excepted quantity:       | E1          |
| Transport category:      | 3           |
| Hazard No:               | 30          |
| Tunnel restriction code: | D/E         |

#### **Inland waterways transport (ADN)**

|  |                |
|--|----------------|
| <b><u>14.1. UN number:</u></b>               | UN 1866        |
| <b><u>14.2. UN proper shipping name:</u></b> | Resin solution |

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**14.3. Transport hazard class(es):** 3**14.4. Packing group:** III

Hazard label: 3



Classification code: F1

Limited quantity: 5 L / 30 kg

Excepted quantity: E1

**Marine transport (IMDG)****14.1. UN number:** UN 1866**14.2. UN proper shipping name:** Resin solution (Epoxy resin)**14.3. Transport hazard class(es):** 3**14.4. Packing group:** III

Hazard label: 3



Marine pollutant: Yes

Limited quantity: 5 L / 30 kg

Excepted quantity: E1

EmS: F-E, S-E

**Air transport (ICAO-TI/IATA-DGR)****14.1. UN number:** UN 1866**14.2. UN proper shipping name:** Resin solution**14.3. Transport hazard class(es):** 3**14.4. Packing group:** III

Hazard label: 3



Limited quantity Passenger: 10 L

Passenger LQ: Y344

Excepted quantity: E1

IATA-packing instructions - Passenger: 355

IATA-max. quantity - Passenger: 60 L

IATA-packing instructions - Cargo: 366

IATA-max. quantity - Cargo: 220 L

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: yes

**14.6. Special precautions for user**

Handle in accordance with good industrial hygiene and safety practice.

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

The transport takes place only in approved and appropriate packaging.



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**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

2004/42/EC (VOC): &lt; 10 %

**National regulatory information**

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water contaminating class (D): 2 - water contaminating

**Additional information**

Consider Chemical prohibition regulation.

**15.2. Chemical safety assessment**

For this substance a chemical safety assessment has not been carried out.

**SECTION 16: Other information****Abbreviations and acronyms**

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route  
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses  
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure  
IMDG = International Maritime Code for Dangerous Goods  
IATA/ICAO = International Air Transport Association / International Civil Aviation Organization  
MARPOL = International Convention for the Prevention of Pollution from Ships  
IBC-Code = International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
REACH = Registration, Evaluation, Authorization and Restriction of Chemicals  
CAS = Chemical Abstract Service  
EN = European norm  
ISO = International Organization for Standardization  
DIN = Deutsche Industrie Norm  
PBT = Persistent Bioaccumulative and Toxic  
vPvB = Very Persistent and very Bio-accumulative  
LD = Lethal dose  
LC = Lethal concentration  
EC = Effect concentration  
IC = Median immobilisation concentration or median inhibitory concentration

**Relevant H and EUH statements (number and full text)**

|       |  |
|-------|--|
| H226  | Flammable liquid and vapour.                                       |
| H228  | Flammable solid.   |
| H304  | May be fatal if swallowed and enters airways.                      |
| H312  | Harmful in contact with skin.                                      |
| H315  | Causes skin irritation.  |
| H317  | May cause an allergic skin reaction.                               |
| H319  | Causes serious eye irritation.                                     |
| H332  | Harmful if inhaled.  |
| H335  | May cause respiratory irritation.                                  |
| H361d | Suspected of damaging the unborn child.                            |
| H373  | May cause damage to organs through prolonged or repeated exposure. |
| H411  | Toxic to aquatic life with long lasting effects.                   |

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EUH205 Contains epoxy constituents. May produce an allergic reaction.

**Further Information**

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

(n.a. = not applicable; n.d. = not determined)

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*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*