



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### TIP TOP ADHESIVE CHEMO 8 SOLUTION

Revision date: 14.02.2017

Product code: 00359-1231

Page 2 of 11

**Pictograms:****Hazard statements**

|           |  |
|-----------|--|
| H225      | Highly flammable liquid and vapour.                                |
| H312+H332 | Harmful in contact with skin or if inhaled.                        |
| H335      | May cause respiratory irritation.                                  |
| H319      | Causes serious eye irritation.                                     |
| H315      | Causes skin irritation.  |
| H317      | May cause an allergic skin reaction.                               |
| H336      | May cause drowsiness or dizziness.                                 |
| H373      | May cause damage to organs through prolonged or repeated exposure. |

**Precautionary statements**

|                |  |
|----------------|--|
| P210           | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.                                   |
| P233           | Keep container tightly closed.   |
| P260           | Do not breathe vapour.   |
| 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.                              |
| P304+P340      | IF INHALED: Remove person to fresh air and keep comfortable for breathing.   |
| 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.   |

**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**

Preparation in organic solvents

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**TIP TOP ADHESIVE CHEMO 8 SOLUTION**

Revision date: 14.02.2017

Product code: 00359-1231

Page 3 of 11

**Hazardous components**

| CAS No     | Chemical name   |              |                  | Quantity |
|------------|---|--------------|------------------|----------|
|            | EC No   | Index No     | REACH No         |          |
|            | Classification according to Regulation (EC) No. 1272/2008 [CLP]   |              |                  |          |
| 1330-20-7  | Xylene (mixed isomers)  |              |                  | < 50 %   |
|            | 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 |              |                  |          |
| 141-78-6   | Ethyl acetate   |              |                  | < 30 %   |
|            | 205-500-4   | 607-022-00-5 | 01-2119475103-46 |          |
|            | Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066  |              |                  |          |
| 100-41-4   | Ethyl benzene   |              |                  | < 15 %   |
|            | 202-849-4   | 601-023-00-4 | 01-2119489370-35 |          |
|            | Flam. Liq. 2, Acute Tox. 4, STOT RE 2, Asp. Tox. 1; H225 H332 H373 H304   |              |                  |          |
| 25068-38-6 | Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <= 700)   |              |                  | < 2,5 %  |
|            | 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   |              |                  |          |

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.
- Take away from danger area and lay down affected person.

**After inhalation**

- Move to fresh air in case of accidental inhalation of vapours.
- 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.
- Consult a physician.

**After ingestion**

- Summon a doctor immediately.
- Do not induce vomiting.
- Induce vomiting only upon the advice of a physician.
- Attention. Beware, danger of aspiration.

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

- Harmful in contact with skin or if inhaled.
- Causes skin irritation.
- Causes serious eye irritation.
- May cause an allergic skin reaction.
- May cause drowsiness or dizziness.
- May cause respiratory irritation.
- May cause damage to organs through prolonged or repeated exposure.



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### TIP TOP ADHESIVE CHEMO 8 SOLUTION

Revision date: 14.02.2017

Product code: 00359-1231

Page 4 of 11

#### **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, carbon dioxide, sulphur oxides and nitrogen oxides (NO<sub>x</sub>).

#### **5.3. Advice for firefighters**

Use breathing apparatus with independent air supply.

Protective suit.

#### **Additional information**

Vapours are heavier than air and spread along ground.

The vapour/air mixture is explosive, even in empty, uncleaned receptacles.

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.

Keep away sources of ignition.

#### **6.2. Environmental precautions**

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.

Clean contaminated surface thoroughly.

#### **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 area provided with appropriate exhaust ventilation.

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.

Pay attention to anti-explosion rules.

Do not smoke.

Take precautionary measures against static discharges.

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

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**TIP TOP ADHESIVE CHEMO 8 SOLUTION**

Revision date: 14.02.2017

Product code: 00359-1231

Page 5 of 11

**Requirements for storage rooms and vessels**

Keep containers tightly closed in a cool, well-ventilated place.  
Pay attention to anti-explosion rules.

**Advice on storage compatibility**

Incompatible with oxidizing agents.

**Further information on storage conditions**

Keep away from food, drink and animal feeding stuffs.

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

adhesive

**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 |
|-----------|-----------------------|-----|-------------------|-----------|---------------|--------|
| 141-78-6  | Ethyl acetate         | 200 | -                 |           | TWA (8 h)     | WEL    |
|           |                       | 400 | -                 |           | STEL (15 min) | WEL    |
| 100-41-4  | Ethylbenzene          | 100 | 441               |           | TWA (8 h)     | WEL    |
|           |                       | 125 | 552               |           | STEL (15 min) | WEL    |
| 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.  
Pay attention to explosion protection guidelines.

**Protective and hygiene measures**

Do not inhale vapours.  
Avoid contact with eyes and skin.  
Wash hands before breaks and immediately after handling the product.  
When using do not eat, drink or smoke.  
Remove and wash contaminated clothes before re-use.

**Eye/face protection**

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

**Hand protection**

Splash protection:  
Protective gloves resistant to chemicals made of butyl, minimum coat thickness 0.7 mm, permeation resistance (wear duration) > 30 minutes, i.e. protective glove <Butoject 898> 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.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**TIP TOP ADHESIVE CHEMO 8 SOLUTION**

Revision date: 14.02.2017

Product code: 00359-1231

Page 6 of 11

**Skin protection**

Long sleeved clothing (EN 368).

**Respiratory protection**

In case of insufficient ventilation wear suitable respiratory equipment (gas filter type A) (EN 14387).

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

Physical state: highly viscous  
Colour: transparent  
Odour: Aromatic

**Test method****Changes in the physical state**

Initial boiling point and boiling range: > 76 °C  
Flash point: - 5 °C (Ethyl acetate)  
Lower explosion limits: 1,2  
Ignition temperature: > 430 °C  
Vapour pressure: 97 hPa  
Density (at 20 °C): 0,92 g/cm<sup>3</sup>  
Water solubility: Immiscible  
(at 20 °C)  
Viscosity / dynamic: 1250 +-250 mPa·s  
Viscosity / kinematic: > 20,5 mm<sup>2</sup>/s  
(at 40 °C)  
Flow time: 103 s 6 DIN EN ISO 2431  
(at 23 °C)  
Solvent separation test: < 3 %  
Solvent content: < 80 %

**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.

**10.3. Possibility of hazardous reactions**

Reactions with oxidizing agents.

**10.4. Conditions to avoid**To avoid thermal decomposition, do not overheat.  
Vapours may form explosive mixture with air.**10.5. Incompatible materials**

Strong oxidizing agents.

**10.6. Hazardous decomposition products**Carbon monoxide, carbon dioxide, sulphur oxides, and nitrogen oxides (NO<sub>x</sub>).

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**TIP TOP ADHESIVE CHEMO 8 SOLUTION**

Revision date: 14.02.2017

Product code: 00359-1231

Page 7 of 11

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

Harmful in contact with skin or if inhaled.  
No toxicological data available.

**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**

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

**STOT-single exposure**

May cause respiratory irritation. (Xylene (mixed isomers))  
May cause drowsiness or dizziness. (Ethyl acetate)

**STOT-repeated exposure**

May cause damage to organs through prolonged or repeated exposure. (Xylene (mixed isomers)); (Ethyl benzene))

**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.

**Practical experience****Other observations**

Inhalation of vapours in high concentration can cause narcotic effects.  
Inhalation of high vapour concentration may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.  
Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product.  
Attention. Beware, danger of aspiration!

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

Ecological data are not available.

**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**

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.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### TIP TOP ADHESIVE CHEMO 8 SOLUTION

Revision date: 14.02.2017

Product code: 00359-1231

Page 8 of 11

#### SECTION 13: Disposal considerations

##### 13.1. Waste treatment methods

###### Advice on disposal

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

###### 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  
Classified as hazardous waste.

###### Contaminated 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 like the product.  
Empty containers should be taken for local recycling, recovery or waste disposal.

#### SECTION 14: Transport information

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

**14.1. UN number:** UN 1133  
**14.2. UN proper shipping name:** Adhesives  
**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  
Transport category: 3  
Tunnel restriction code: E

##### Inland waterways transport (ADN)

**14.1. UN number:** UN 1133  
**14.2. UN proper shipping name:** Adhesives  
**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 1133  
**14.2. UN proper shipping name:** Adhesives



**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**TIP TOP ADHESIVE CHEMO 8 SOLUTION**

Revision date: 14.02.2017

Product code: 00359-1231

Page 9 of 11

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

Hazard label: 3



Marine pollutant: No  
Limited quantity: 5 L / 30 kg  
Excepted quantity: E1  
EmS: F-E, S-D

**Other applicable information (marine transport)**

Receptacle max. 30 L, IMDG Code subsection 2.3.2.3

**Air transport (ICAO-TI/IATA-DGR)****14.1. UN number:** UN 1133**14.2. UN proper shipping name:** Adhesives**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: 30 L (\*)  
IATA-packing instructions - Cargo: 366  
IATA-max. quantity - Cargo: 30 L (\*)

**Other applicable information (air transport)**

\*) [3.3.3.1 IATA DGR]

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: no

**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.

**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; 85 %

**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

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**TIP TOP ADHESIVE CHEMO 8 SOLUTION**

Revision date: 14.02.2017

Product code: 00359-1231

Page 10 of 11

**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)**

|           |  |
|-----------|--|
| H225      | Highly flammable liquid and vapour.                                |
| H226      | Flammable liquid and vapour.                                       |
| H304      | May be fatal if swallowed and enters airways.                      |
| H312      | Harmful in contact with skin.                                      |
| H312+H332 | Harmful in contact with skin or if inhaled.                        |
| 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.                                  |
| H336      | May cause drowsiness or dizziness.                                 |
| H373      | May cause damage to organs through prolonged or repeated exposure. |
| H411      | Toxic to aquatic life with long lasting effects.                   |
| EUH066    | Repeated exposure may cause skin dryness or cracking.              |
| 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)



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### TIP TOP ADHESIVE CHEMO 8 SOLUTION

Revision date: 14.02.2017

Product code: 00359-1231

Page 11 of 11

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