

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

**Revision date:** 12-Jul-2019

**Print date:** 30-Jul-2019

**Version:** 6.0

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## E-Solder 3025 B

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

#### 1.1. Product identifier

**Trade name/designation:**

E-Solder 3025 B

#### Additional information:

Manufacturer

Von Roll USA, Inc.

200 Von Roll Drive

SCHENECTADY, NY 12306

USA

Emergency telephone number +1 800-262-8200

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

**Use of the substance/mixture:**

Adhesives, sealants

Epoxy resin

Hardener

For use in industrial installations and professional treatment only.

**Relevant identified uses:**

**Life cycle stage [LCS]**

**IS:** Use at industrial sites

**PW:** Widespread use by professional workers

**Product Categories [PC]**

**PC 1:** Adhesives, sealants

**Uses advised against:**

**Life cycle stage [LCS]**

**C:** Consumer use

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

**Supplier (manufacturer/importer/only representative/downstream user/distributor):**

**Epoxy Produkte GmbH**

Am Walde 24

29323 Wietze

Germany

**Telephone:** +49 (0)5146 9879965

**Telefax:** +49 (0)5146 9879964

**E-mail:** hs@epoxy-produkte.de

**Website:** www.epoxy-produkte.de

**E-mail (competent person):** hs@epoxy-produkte.de

#### 1.4. Emergency telephone number

+49 (0)5146 9879965 (Only available during office hours.)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008 [CLP]-:**

Hazard classes and hazard categories	Hazard statements	Classification procedure
Skin corrosion/irritation ( <i>Skin Corr. 1B</i> )	H314: Causes severe skin burns and eye damage.	Calculation method.
Respiratory or skin sensitisation ( <i>Skin Sens. 1</i> )	H317: May cause an allergic skin reaction.	Calculation method.
Serious eye damage/eye irritation ( <i>Eye Dam. 1</i> )	H318: Causes serious eye damage.	Calculation method.

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Hazard classes and hazard categories	Hazard statements	Classification procedure
Reproductive toxicity ( <i>Repr. 1B</i> )	H360F: May damage fertility.	Calculation method.
Hazardous to the aquatic environment ( <i>Aquatic Acute 1</i> )	H400: Very toxic to aquatic life.	Calculation method.
Hazardous to the aquatic environment ( <i>Aquatic Chronic 1</i> )	H410: Very toxic to aquatic life with long lasting effects.	Calculation method.

### 2.2. Label elements

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

##### Hazard pictograms:



**GHS05**  
Corrosion



**GHS07**  
Exclamation mark



**GHS08**  
Health hazard



**GHS09**  
Environment

**Signal word:** Danger

##### Hazard components for labelling:

4,4'-isopropylidenediphenol; Polyaminoamid; 2,2'-iminodi(ethylamine); 3,6,9-triazaundecamethylenediamine; tetraethylenepentamine

##### hazard statements for health hazards

H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H360F	May damage fertility.

##### Hazard statements for environmental hazards

H410	Very toxic to aquatic life with long lasting effects.
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##### Precautionary statements Prevention

P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves and eye/face protection.

##### Precautionary statements Response

P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P308 + P313	IF exposed or concerned: Get medical advice/attention.

##### Precautionary statements Storage

P405	Store locked up.
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##### Precautionary statements Disposal

P501	Dispose of contents/container to an appropriate recycling or disposal facility.
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### 2.3. Other hazards

#### Adverse physicochemical effects:

No information available.

#### Adverse human health effects and symptoms:

No information available.

#### Adverse environmental effects:

The substance in the mixture does not meet the PBT/vPvB criteria according to REACH, annex XIII.

#### Other adverse effects:

No information available.

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### SECTION 3: Composition / information on ingredients

#### 3.2. Mixtures

##### Hazardous ingredients / Hazardous impurities / Stabilisers:

product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008- [CLP]	Concentration
CAS No.: 7440-22-4 EC No.: 231-131-3	<b>silver</b> Aquatic Acute 1, Aquatic Chronic 1  <b>Warning</b> H400-H410 M-factor (acute): 10	≥ 50 - ≤ 100 Wt %
CAS No.: 68410-23-1	<b>Polyaminoamid</b> Aquatic Acute 1, Aquatic Chronic 1, Eye Dam. 1, Skin Irrit. 2, Skin Sens. 1  <b>Danger</b> H315-H317-H318-H410	≥ 25 - ≤ 50 Wt %
CAS No.: 68953-36-6 EC No.: 273-201-6	<b>Fatty acids, tall-oil, reaction products with tetraethylenepentamine</b> Eye Irrit. 2, Skin Irrit. 2, Skin Sens. 1  <b>Warning</b> H315-H317-H319	≥ 2.5 - ≤ 10 Wt %
CAS No.: 111-40-0 EC No.: 203-865-4	<b>2,2'-iminodi(ethylamine)</b> Acute Tox. 4, Skin Corr. 1B, Skin Sens. 1  <b>Danger</b> H302-H312-H314-H317	≥ 0 - ≤ 2.5 Wt %
CAS No.: 112-57-2 EC No.: 203-986-2	<b>3,6,9-triazaundecamethylenediamine; tetraethylenepentamine</b> Acute Tox. 4, Aquatic Chronic 2, Skin Corr. 1B, Skin Sens. 1  <b>Danger</b> H302-H312-H314-H317-H411	≥ 0 - ≤ 2.5 Wt %
CAS No.: 80-05-7 EC No.: 201-245-8	<b>4,4'-isopropylidenediphenol</b> <i>Candidate List of Substances of Very High Concern for Authorisation!</i> Eye Dam. 1, Repr. 1B, STOT SE 3, Skin Sens. 1  <b>Danger</b> H317-H318-H335-H360F	≥ 0 - ≤ 2.5 Wt %

Full text of H- and EUH-phrases: see section 16.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General information:

When in doubt or if symptoms are observed, get medical advice.

Never give anything by mouth to an unconscious person or a person with cramps.

##### Following inhalation:

Provide fresh air.

##### In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap.

Do not wash with: Solvents/Thinner

Immediate medical treatment required because corrosive injuries that are not treated are hard to cure.

##### After eye contact:

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

In case of eye irritation consult an ophthalmologist.

##### After ingestion:

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

If swallowed, seek medical advice immediately and show this container or label.

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

No known symptoms to date.

#### 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:**

Foam ABC-powder Water mist

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

No information available.

#### 5.3. Advice for firefighters

Co-ordinate fire-fighting measures to the fire surroundings.

### SECTION 6: Accidental release measures

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

##### 6.1.1. For non-emergency personnel

**Personal precautions:**

Use personal protection equipment.

##### 6.1.2. For emergency responders

**Personal protection equipment:**

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

#### 6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

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

**For containment:**

Suitable material for taking up:

Sand, Universal binder, Earth

**For cleaning up:**

Clean with detergents. Avoid solvent cleaners.

**Other information:**

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

#### 6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

**Protective measures**

**Advices on safe handling:**

Only allow access to authorised staff.

**Fire prevent measures:**

Usual measures for fire prevention.

**Measures to prevent aerosol and dust generation:**

Devices with local exhaust

**Advices on general occupational hygiene**

Thorough skin-cleansing after handling the product. Immediately remove any contaminated clothing, shoes or stockings. When using do not eat, drink, smoke, sniff.

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

**Technical measures and storage conditions:**

Keep the packing dry and well sealed to prevent contamination and absorption of humidity.

**Requirements for storage rooms and vessels:**

Keep/Store only in original container.

**Hints on storage assembly:**

Do not store together with:

Food/feedstuff additives

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**Storage class:** 10 - Combustible liquids that cannot be assigned to any of the above storage classes

### 7.3. Specific end use(s)

**Recommendation:**

Observe technical data sheet.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① long-term occupational exposure limit value ② short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
TRGS 900 (DE)	silver CAS No.: 7440-22-4	① 0.01 mg/m <sup>3</sup> ② 0.02 mg/m <sup>3</sup> ⑤ (Silber, Verbindungen, anorganisch, berechnet als Ag); (ein atembare Fraktion)
IOELV (EU)	silver CAS No.: 7440-22-4	① 0.01 mg/m <sup>3</sup> ⑤ (Silver compounds, soluble, calculated as Ag )
TRGS 900 (DE)	silver CAS No.: 7440-22-4	① 0.1 mg/m <sup>3</sup> ② 0.8 mg/m <sup>3</sup> ⑤ (Metall, einatembare Fraktion)
IOELV (EU)	silver CAS No.: 7440-22-4	① 0.1 mg/m <sup>3</sup> ⑤ (metal)
IOELV (EU)	4,4'-isopropylidenediphenol CAS No.: 80-05-7	① 2 mg/m <sup>3</sup> ⑤ (inhalable fraction)
TRGS 900 (DE)	4,4'-isopropylidenediphenol CAS No.: 80-05-7	① 5 mg/m <sup>3</sup> ② 5 mg/m <sup>3</sup> ⑤ (einatembare Fraktion)

#### 8.1.2. Biological limit values

No data available

#### 8.1.3. DNEL-/PNEC-values

No data available

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

#### 8.2.2. Personal protection equipment

**Eye/face protection:**

Eye glasses with side protection

**Skin protection:**

Use protective skin cream before handling the product.

By long-term hand contact: Gloves with long cuffs

Suitable material:

CR (polychloroprene, chloroprene rubber)

Butyl caoutchouc (butyl rubber)

Breakthrough time (maximum wearing time) 2-4 h

Thickness of the glove material 0,5 mm

**Respiratory protection:**

Respiratory protection necessary at:  
insufficient exhaust

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### 8.2.3. Environmental exposure controls

No data available

### 8.3. Additional information

Preventive industrial medical examinations are to be offered.

## SECTION 9: Physical and chemical properties

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

#### Appearance

**Physical state:** Liquid

**Colour:** not determined

**Odour:** not determined

**Odour threshold:** not determined

#### Safety relevant basis data

parameter		at °C	Method	Remark
pH	<i>not determined</i>			
Melting point	<i>not determined</i>			
Freezing point	<i>not applicable</i>			
Initial boiling point and boiling range	<i>not determined</i>			
Decomposition temperature	<i>not determined</i>			
Flash point	<i>not determined</i>			
Evaporation rate	<i>not determined</i>			
Auto-ignition temperature	<i>not determined</i>			
Upper/lower flammability or explosive limits	<i>not determined</i>			
Vapour pressure	<i>not determined</i>			
Vapour density	<i>not determined</i>			
Density	<i>not determined</i>			
Bulk density	<i>not determined</i>			
Water solubility	<i>not determined</i>			
Partition coefficient: n-octanol/water	<i>not determined</i>			
Dynamic viscosity	<i>not determined</i>			
Kinematic viscosity	<i>not determined</i>	40 °C		

### 9.2. Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No information available.

### 10.2. Chemical stability

The substance is chemically stable under recommended conditions of storage, use and temperature.

### 10.3. Possibility of hazardous reactions

No information available.

### 10.4. Conditions to avoid

No information available.

### 10.5. Incompatible materials

No information available.

### 10.6. Hazardous decomposition products

No information available.

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### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

CAS No.	Substance name	Toxicological information
111-40-0	2,2'-iminodi(ethylamine)	<b>LD<sub>50</sub> dermal:</b> =1,045 mg/kg

**Acute oral toxicity:**

No information available.

**Acute dermal toxicity:**

No information available.

**Acute inhalation toxicity:**

No information available.

**Skin corrosion/irritation:**

Causes burns.

**Serious eye damage/irritation:**

Risk of serious damage to eyes.

**Respiratory or skin sensitisation:**

Skin sensitisation

**Germ cell mutagenicity:**

No information available.

**Carcinogenicity:**

No information available.

**Reproductive toxicity:**

No information available.

**STOT-single exposure:**

No information available.

**STOT-repeated exposure:**

No information available.

**Aspiration hazard:**

No information available.

### SECTION 12: Ecological information

#### 12.1. Toxicity

**Assessment/classification:**

Very toxic to aquatic life with long lasting effects.

#### 12.2. Persistence and degradability

**Additional information:**

On the basis of existing data about the elimination/degradation and bioaccumulation potential longer term damage to the environment cannot be ruled out.

#### 12.3. Bioaccumulative potential

**Bioconcentration factor (BCF):**

No information available.

**Accumulation / Evaluation:**

No information available.

#### 12.4. Mobility in soil

No information available.

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

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

#### 12.6. Other adverse effects

No data available

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### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Dispose of waste according to applicable legislation.

List of proposed waste codes/waste designations in accordance with EWC

##### 13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

##### Waste code product:

08 04 09 *	Waste adhesives and sealants containing organic solvents or other dangerous substances
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\*: Evidence for disposal must be provided.

##### Waste code packaging:

08 04 09 *	Waste adhesives and sealants containing organic solvents or other dangerous substances
------------	--








\*: Evidence for disposal must be provided.

#### Waste treatment options

##### Appropriate disposal / Package:

Handle contaminated packages in the same way as the substance itself.

### SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
<b>14.1. UN-No.</b>			
UN 1760	UN 1760	UN 1760	UN 1760
<b>14.2. UN proper shipping name</b>			
CORROSIVE LIQUID, N.O.S. (3,6,9-triazaundecamethylenediamine; tetraethylenepentamine, 2,2'-iminodi(ethylamine))	CORROSIVE LIQUID, N.O.S. (3,6,9-triazaundecamethylenediamine; tetraethylenepentamine, 2,2'-iminodi(ethylamine))	CORROSIVE LIQUID, N.O.S. (3,6,9-triazaundecamethylenediamine; tetraethylenepentamine, 2,2'-iminodi(ethylamine))	CORROSIVE LIQUID, N.O.S. (3,6,9-triazaundecamethylenediamine; tetraethylenepentamine, 2,2'-iminodi(ethylamine))
<b>14.3. Transport hazard class(es)</b>			
 8	 8	 8	 8
<b>14.4. Packing group</b>			
II	II	II	II
<b>14.5. Environmental hazards</b>			
 (silver)	 (silver)	 MARINE POLLUTANT (silver)	No (silver)



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Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
<b>14.6. Special precautions for user</b>			
<b>Special provisions:</b> 274 <b>Limited quantity (LQ):</b> 1 L <b>Excepted Quantities:</b> E2 <b>Hazard identification number (Kemler No.):</b> 80 <b>Classification code:</b> C9 <b>tunnel restriction code:</b> (E) <b>Remark:</b>	<b>Special provisions:</b> 274 <b>Limited quantity (LQ):</b> 1 L <b>Excepted Quantities:</b> E2 <b>Classification code:</b> C9 <b>Remark:</b>	<b>Special provisions:</b> 274 <b>Limited quantity (LQ):</b> 1 L <b>Excepted Quantities:</b> E2 <b>EmS-No.:</b> F-A, S-B <b>Remark:</b>	<b>Special provisions:</b> A3 <b>Excepted Quantities:</b> E2 <b>Remark:</b> A97, A158

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

No data available

## SECTION 15: Regulatory information

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

#### 15.1.1. EU legislation

**Authorisations:**

not applicable

**Restrictions on use:**

Use restriction according to REACH annex XVII, no.: 66 4,4'-isopropylidenediphenol; Bisphenol A; BPA (CAS 80-05-7) (not applicable)

**Other regulations (EU):**

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive], Hazard categories:

- E1 Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1

This mixture contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH:

4,4'-isopropylidenediphenol; Bisphenol A; BPA (CAS 80-05-7)

RoHS - Directive 2011/65/EU: This product is compatible with the current ROHS-Directive.

#### 15.1.2. National regulations

 **[DE] National regulations**

#### Störfallverordnung

**for substances contained in the product:**

Hazard categories:

- E1 Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1

#### Water hazard class (WGK)

**WGK:**

3 - stark wassergefährdend

### 15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

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### SECTION 16: Other information

#### 16.1. Indication of changes

No data available

#### 16.2. Abbreviations and acronyms

For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>

-ADR: European agreement concerning the international carriage of dangerous goods by road (Accord européen relatif transport des marchandises dangereuses par route)

-CAS: Chemical Abstract Service

-CLP: Classification, labelling and Packaging

-DNEL: Derived No Effect Level

-EC50: Effective Concentration 50%

-ECHA: European Chemical Agency

-LC50: Lethal Concentration 50%

-LD50: Lethal Dose 50%

-PBT: persistent, bioaccumulative, toxic

-PNEC: Predicted No Effect Concentration

-REACH: Registration, Evaluation and Authorization of Chemicals

-SVHC: Substance of Very High Concern

-VOC: Volatile organic compounds

-vPvB: very persistent, very bioaccumulative

#### 16.3. Key literature references and sources for data

REACH Dissemination Portal

<https://echa.europa.eu/de/information-on-chemicals/registered-substances>

#### 16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

##### Classification according to Regulation (EC) No 1272/2008 [CLP]-:

Hazard classes and hazard categories	Hazard statements	Classification procedure
Skin corrosion/irritation ( <i>Skin Corr. 1B</i> )	H314: Causes severe skin burns and eye damage.	Calculation method.
Respiratory or skin sensitisation ( <i>Skin Sens. 1</i> )	H317: May cause an allergic skin reaction.	Calculation method.
Serious eye damage/eye irritation ( <i>Eye Dam. 1</i> )	H318: Causes serious eye damage.	Calculation method.
Reproductive toxicity ( <i>Repr. 1B</i> )	H360F: May damage fertility.	Calculation method.
Hazardous to the aquatic environment ( <i>Aquatic Acute 1</i> )	H400: Very toxic to aquatic life.	Calculation method.
Hazardous to the aquatic environment ( <i>Aquatic Chronic 1</i> )	H410: Very toxic to aquatic life with long lasting effects.	Calculation method.

#### 16.5. Relevant R-, H- and EUH-phrases (Number and full text)

Hazard statements	
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.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H360F	May damage fertility.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

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### 16.6. Training advice

No data available

### 16.7. Additional information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

This Safety Data Sheet was drawn up by TÜV SÜD Industrie Service GmbH (see below), based on data from the supplier, who is named in section 1 and who is responsible for this document.

TÜV SÜD Industrie Service GmbH

Department Environmental Service

Westendstraße 199

80686 Munich - Germany