

# SAFETY DATA SHEET

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

**Revision date:** 28 Jan 2022

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**Version:** 8

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## E-Solder 3021 B

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

#### 1.1. Product identifier

**Trade name/designation:**

E-Solder 3021 B

**UFI:**

Q300-P0H0-7003-GGQD

**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 |
|-----------------------------------------------------------|------------------------------------------------|--------------------------|
| Acute toxicity (oral) ( <i>Acute Tox. 4</i> )             | H302: Harmful if swallowed.                    | Calculation method.      |
| 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.      |

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| Hazard classes and hazard categories                              | Hazard statements                                                     | Classification procedure |
|-------------------------------------------------------------------|-----------------------------------------------------------------------|--------------------------|
| Serious eye damage/eye irritation ( <i>Eye Dam. 1</i> )           | H318: Causes serious eye damage.                                      | Calculation method.      |
| Reproductive toxicity ( <i>Repr. 1B</i> )                         | H360Fd: May damage fertility. Suspected of damaging the unborn child. | 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:

Phenol, 4-nonyl-, branched; 4,4'-isopropylidenediphenol; 2-piperazin-1-ylethylamine; Polyaminoamid

| Hazard statements for health hazards |                                                               |
|--------------------------------------|---------------------------------------------------------------|
| H302                                 | Harmful if swallowed.                                         |
| H314                                 | Causes severe skin burns and eye damage.                      |
| H317                                 | May cause an allergic skin reaction.                          |
| H360Fd                               | May damage fertility. Suspected of damaging the unborn child. |

| Hazard statements for environmental hazards |                                                       |
|---------------------------------------------|-------------------------------------------------------|
| H410                                        | Very toxic to aquatic life with long lasting effects. |

| 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. |

| Precautionary statements Disposal |                                                                                 |
|-----------------------------------|---------------------------------------------------------------------------------|
| P501                              | Dispose of contents/container to an appropriate recycling or disposal facility. |

### 2.3. Other hazards

#### Adverse physicochemical effects:

No information available.

#### Adverse human health effects and symptoms:

No information available.

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### 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.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

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

| Product identifiers                      | Substance name<br>Classification according to Regulation (EC) No 1272/2008 [CLP]                                                                                                                                                                                                                        | Concentration            |
|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| CAS No.: 7440-22-4<br>EC No.: 231-131-3  | <b>silver</b><br>Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410)<br> <b>Warning</b><br>M-factor (acute): 10                                                                                                           | ≥ 50 - ≤ 100<br>weight-% |
| CAS No.: 84852-15-3<br>EC No.: 284-325-5 | <b>Phenol, 4-nonyl-, branched</b><br>Acute Tox. 4 (H302), Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410),<br>Repr. 2 (H361fd), Skin Corr. 1B (H314)<br> <b>Danger</b>                                                | > 10 - ≤ 25<br>weight-%  |
| CAS No.: 140-31-8<br>EC No.: 205-411-0   | <b>2-piperazin-1-ylethylamine</b><br>Acute Tox. 4 (H312, H302), Aquatic Chronic 3 (H412),<br>Skin Corr. 1B (H314), Skin Sens. 1 (H317)<br> <b>Danger</b>                                                             | ≥ 2.5 - ≤ 10<br>weight-% |
| CAS No.: 68410-23-1                      | <b>Polyaminoamid</b><br>Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410), Eye Dam. 1 (H318),<br>Skin Irrit. 2 (H315), Skin Sens. 1 (H317)<br> <b>Danger</b>                                                          | ≥ 2.5 - ≤ 10<br>weight-% |
| CAS No.: 80-05-7<br>EC No.: 201-245-8    | <b>4,4'-isopropylidenediphenol</b><br><i>Candidate List of Substances of Very High Concern for Authorisation!</i><br>Eye Dam. 1 (H318), Repr. 1B (H360F), STOT SE 3 (H335),<br>Skin Sens. 1 (H317)<br> <b>Danger</b> | ≥ 0 - ≤ 2.5<br>weight-%  |
| CAS No.: 111-40-0<br>EC No.: 203-865-4   | <b>2,2'-iminodi(ethylamine)</b><br>Acute Tox. 4 (H312, H302), Skin Corr. 1B (H314), Skin Sens. 1 (H317)<br> <b>Danger</b>                                                                                            | ≥ 0 - ≤ 2.5<br>weight-%  |

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.

#### Following 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.

#### Self-protection of the first aider:

Use personal protection equipment. No direct artificial respiration to be given by first aider.

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

Skin corrosion/irritation  
Allergic reactions

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

Treat symptomatically.

## 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 known hazardous reactions.

### 5.3. Advice for firefighters

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

### 5.4. Additional information

Fire fighting water forms corrosive acid solutions.  
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

## 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. Remove persons to safety.

##### Protective equipment:

Wear protective gloves/protective clothing/eye protection/face protection.

#### 6.1.2. For emergency responders

##### Personal protection equipment:

Wear breathing apparatus if exposed to vapours/dusts/aerosols.  
Personal protection equipment: see section 8

### 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.

### 6.4. Reference to other sections

Safe handling: see section 7  
Personal protection equipment: see section 8  
Disposal: see section 13

### 6.5. Additional information

Use appropriate container to avoid environmental contamination.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Protective measures

##### Advices on safe handling:

Wear personal protection equipment (refer to section 8).  
Avoid contact during pregnancy/while nursing.

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### 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. When using do not eat, drink or smoke. Avoid contact with eyes and skin.

### 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. Keep container tightly closed in a cool, well-ventilated place.

#### Requirements for storage rooms and vessels:

Keep/Store only in original container.

#### Hints on storage assembly:

Do not store together with:

Food/feedstuff additives

**Storage class (TRGS 510, Germany):** 8B – Non-combustible corrosive substances

### 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<br>(country of origin) | Substance name                                                       | ① Long-term occupational exposure limit value<br>② Short-term occupational exposure limit value<br>③ Instantaneous value<br>④ Monitoring and observation processes<br>⑤ Remark |
|-----------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TRGS 900 (DE)                           | silver<br>CAS No.: 7440-22-4<br>EC No.: 231-131-3                    | ① 0.01 mg/m <sup>3</sup><br>② 0.02 mg/m <sup>3</sup><br>⑤ (Silber, Verbindungen, anorganisch, berechnet als Ag); (eintembare Fraktion)                                         |
| IOELV (EU)                              | silver<br>CAS No.: 7440-22-4<br>EC No.: 231-131-3                    | ① 0.01 mg/m <sup>3</sup><br>⑤ (silver compounds, soluble, calculated as Ag )                                                                                                   |
| TRGS 900 (DE)                           | silver<br>CAS No.: 7440-22-4<br>EC No.: 231-131-3                    | ① 0.1 mg/m <sup>3</sup><br>② 0.8 mg/m <sup>3</sup><br>⑤ (Metall, eintembare Fraktion)                                                                                          |
| IOELV (EU)                              | silver<br>CAS No.: 7440-22-4<br>EC No.: 231-131-3                    | ① 0.1 mg/m <sup>3</sup><br>⑤ (metal)                                                                                                                                           |
| IOELV (EU)                              | 4,4'-isopropylidenediphenol<br>CAS No.: 80-05-7<br>EC No.: 201-245-8 | ① 2 mg/m <sup>3</sup><br>⑤ (inhalable fraction)                                                                                                                                |
| TRGS 900 (DE)                           | 4,4'-isopropylidenediphenol<br>CAS No.: 80-05-7<br>EC No.: 201-245-8 | ① 5 mg/m <sup>3</sup><br>② 5 mg/m <sup>3</sup><br>⑤ (eintembare Fraktion)                                                                                                      |

#### 8.1.2. Biological limit values

No data available

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### 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 EN 166

##### Skin protection:

Gloves with long cuffs

Suitable material:

CR (polychloroprene, chloroprene rubber)

Butyl caoutchouc (butyl rubber)

Breakthrough time: 2-4 h

Thickness of the glove material 0,5 mm Tested protective gloves must be worn EN ISO 374 min In the case of wanting to use the gloves again, clean them before taking off and air them well.

##### Respiratory protection:

Respiratory protection necessary at:  
insufficient exhaust

#### 8.2.3. Environmental exposure controls

Preventive industrial medical examinations are to be offered.

### 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                                    | Value          | at °C | ① Method<br>② Remark |
|----------------------------------------------|----------------|-------|----------------------|
| pH                                           | not determined |       |                      |
| Melting point                                | not determined |       |                      |
| Freezing point                               | not applicable |       |                      |
| Initial boiling point and boiling range      | not determined |       |                      |
| Decomposition temperature                    | not determined |       |                      |
| Flash point                                  | not determined |       |                      |
| Evaporation rate                             | not determined |       |                      |
| Auto-ignition temperature                    | not determined |       |                      |
| Upper/lower flammability or explosive limits | not determined |       |                      |
| Vapour pressure                              | not determined |       |                      |
| Vapour density                               | not determined |       |                      |
| Density                                      | not determined |       |                      |
| Relative density                             | not determined |       |                      |
| Bulk density                                 | not determined |       |                      |
| Water solubility                             | not determined |       |                      |
| Partition coefficient: n-octanol/water       | not determined |       |                      |
| Dynamic viscosity                            | not determined |       |                      |
| Kinematic viscosity                          | not determined | 40 °C |                      |

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### 9.2. Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is stable under storage at normal ambient temperatures.

### 10.2. Chemical stability

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

### 10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

### 10.4. Conditions to avoid

Keep away from heat.

### 10.5. Incompatible materials

no restriction

### 10.6. Hazardous decomposition products

No known hazardous decomposition products.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

| Substance name                                                                     | Toxicological information                                                                                                                                                    |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2-piperazin-1-ylethylamine<br><b>CAS No.:</b> 140-31-8<br><b>EC No.:</b> 205-411-0 | <b>LD<sub>50</sub> oral:</b><br>2,140 mg/kg (Rat)<br><b>LD<sub>50</sub> dermal:</b><br>866 mg/kg<br><b>LC<sub>50</sub> Acute inhalation toxicity (vapour):</b><br>2,000 mg/l |
| 4,4'-isopropylidenediphenol<br><b>CAS No.:</b> 80-05-7<br><b>EC No.:</b> 201-245-8 | <b>LD<sub>50</sub> oral:</b><br>4,100 mg/kg<br><b>LD<sub>50</sub> dermal:</b><br>3,000 mg/kg                                                                                 |
| 2,2'-iminodi(ethylamine)<br><b>CAS No.:</b> 111-40-0<br><b>EC No.:</b> 203-865-4   | <b>LD<sub>50</sub> dermal:</b><br>=1,045 mg/kg                                                                                                                               |

#### Acute oral toxicity:

Harmful if swallowed.

#### Acute dermal toxicity:

Direct derivation of an ATE because of robust data.

#### Acute inhalation toxicity:

There are no data available on the mixture itself.

#### Skin corrosion/irritation:

Causes severe burns.

#### Serious eye damage/irritation:

Causes serious eye damage.

#### Respiratory or skin sensitisation:

Skin sensitisation May cause an allergic skin reaction.

#### Germ cell mutagenicity:

No experimental indications of in vitro mutagenicity exist.

#### Carcinogenicity:

No indication of human carcinogenicity.

#### Reproductive toxicity:

May damage fertility. Suspected of damaging the unborn child.

#### STOT-single exposure:

No information available.

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### STOT-repeated exposure:

No information available.

### Aspiration hazard:

No information available.

### Additional information:

No data available

## 11.2. Information on other hazards

### Endocrine disrupting properties:

The product contains a substance that is identified as having endocrine disrupting properties.  
4,4'-isopropylidenediphenol

## SECTION 12: Ecological information

### 12.1. Toxicity

| Substance name                                                       | Toxicological information                                                            |
|----------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| silver<br>CAS No.: 7440-22-4<br>EC No.: 231-131-3                    | NOEC: =0.13 mg/l 28 d (fish)<br>EC <sub>50</sub> : =0.002 mg/l (crustaceans) EC10/7d |
| 2-piperazin-1-ylethylamine<br>CAS No.: 140-31-8<br>EC No.: 205-411-0 | LC <sub>50</sub> : 2,190 mg/l 4 d (fish)                                             |

### Assessment/classification:

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### Additional ecotoxicological information:

Do not allow uncontrolled discharge of product into the environment.

### 12.2. Persistence and degradability

| Substance name                                                       | Biodegradation | Remark |
|----------------------------------------------------------------------|----------------|--------|
| silver<br>CAS No.: 7440-22-4<br>EC No.: 231-131-3                    | Yes, slowly    |        |
| 2-piperazin-1-ylethylamine<br>CAS No.: 140-31-8<br>EC No.: 205-411-0 | Yes, slowly    |        |
| 4,4'-isopropylidenediphenol<br>CAS No.: 80-05-7<br>EC No.: 201-245-8 | Yes, rapidly   |        |

### Additional information:

No information available.

### 12.3. Bioaccumulative potential

| Substance name                                                       | Log K <sub>ow</sub> | Bioconcentration factor (BCF) |
|----------------------------------------------------------------------|---------------------|-------------------------------|
| 2-piperazin-1-ylethylamine<br>CAS No.: 140-31-8<br>EC No.: 205-411-0 | -1.48               |                               |
| 4,4'-isopropylidenediphenol<br>CAS No.: 80-05-7<br>EC No.: 201-245-8 | 3.4                 | 73                            |

### Bioconcentration factor (BCF):

No information available.

### 12.4. Mobility in soil

No data available

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### 12.5. Results of PBT and vPvB assessment

| Substance name                                                         | Results of PBT and vPvB assessment                                       |
|------------------------------------------------------------------------|--------------------------------------------------------------------------|
| silver<br>CAS No.: 7440-22-4<br>EC No.: 231-131-3                      | This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII. |
| Phenol, 4-nonyl-, branched<br>CAS No.: 84852-15-3<br>EC No.: 284-325-5 | —                                                                        |
| 2-piperazin-1-ylethylamine<br>CAS No.: 140-31-8<br>EC No.: 205-411-0   | This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII. |
| Polyaminoamid<br>CAS No.: 68410-23-1                                   | —                                                                        |
| 4,4'-isopropylidenediphenol<br>CAS No.: 80-05-7<br>EC No.: 201-245-8   | This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII. |
| 2,2'-iminodi(ethylamine)<br>CAS No.: 111-40-0<br>EC No.: 203-865-4     | —                                                                        |

The mixture contains the following substances fulfilling the PBT-/vPvB criteria according to REACH Annex XIII

4-Nonylphenol, branched

### 12.6. Endocrine disrupting properties

The product contains a substance that is identified as having endocrine disrupting properties.

4,4'-isopropylidenediphenol

### 12.7. Other adverse effects

No data available

## 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 |
|------------|----------------------------------------------------------------------------------------|

\*: 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 / Product:

Consult the appropriate local waste disposal expert about waste disposal.

#### 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 number or ID number</b>                                                     |                                                                                         |                                                                                         |                                                                                         |
| UN 1760                                                                                 | UN 1760                                                                                 | UN 1760                                                                                 | UN 1760                                                                                 |
| <b>14.2. UN proper shipping name</b>                                                    |                                                                                         |                                                                                         |                                                                                         |
| CORROSIVE LIQUID, N.O.S.<br>(Phenol, 4-nonyl-, branched,<br>2-piperazin-1-ylethylamine) | CORROSIVE LIQUID, N.O.S.<br>(Phenol, 4-nonyl-, branched,<br>2-piperazin-1-ylethylamine) | CORROSIVE LIQUID, N.O.S.<br>(Phenol, 4-nonyl-, branched,<br>2-piperazin-1-ylethylamine) | CORROSIVE LIQUID, N.O.S.<br>(Phenol, 4-nonyl-, branched,<br>2-piperazin-1-ylethylamine) |

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| Land transport (ADR/RID)                                                                                                                                                                                                                                      | Inland waterway craft (ADN)                                                                                                                              | Sea transport (IMDG)                                                                                                                               | Air transport (ICAO-TI / IATA-DGR)                                                                                                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| <b>14.3. Transport hazard class(es)</b>                                                                                                                                                                                                                       |                                                                                                                                                          |                                                                                                                                                    |                                                                                                                                             |
| <br>8                                                                                                                                                                        | <br>8                                                                   | <br>8                                                             | <br>8                                                    |
| <b>14.4. Packing group</b>                                                                                                                                                                                                                                    |                                                                                                                                                          |                                                                                                                                                    |                                                                                                                                             |
| II                                                                                                                                                                                                                                                            | II                                                                                                                                                       | II                                                                                                                                                 | II                                                                                                                                          |
| <b>14.5. Environmental hazards</b>                                                                                                                                                                                                                            |                                                                                                                                                          |                                                                                                                                                    |                                                                                                                                             |
|                                                                                                                                                                              |                                                                         |  MARINE POLLUTANT                                                 | No                                                                                                                                          |
| <b>14.6. Special precautions for user</b>                                                                                                                                                                                                                     |                                                                                                                                                          |                                                                                                                                                    |                                                                                                                                             |
| <b>Special provisions:</b><br>274<br><b>Limited quantity (LQ):</b><br>1 L<br><b>Excepted Quantities (EQ):</b><br>E2<br><b>Hazard identification number (Kemler No.):</b><br>80<br><b>Classification code:</b><br>C9<br><b>Tunnel restriction code:</b><br>(E) | <b>Special provisions:</b><br>274<br><b>Limited quantity (LQ):</b><br>1 L<br><b>Excepted Quantities (EQ):</b><br>E2<br><b>Classification code:</b><br>C9 | <b>Special provisions:</b><br>274<br><b>Limited quantity (LQ):</b><br>1 L<br><b>Excepted Quantities (EQ):</b><br>E2<br><b>EmS-No.:</b><br>F-A, S-B | <b>Special provisions:</b><br>A3<br><b>Limited quantity (LQ):</b><br>Y840<br><b>Excepted Quantities (EQ):</b><br>E2<br><b>Remark:</b><br>A3 |

### 14.7. Maritime transport in bulk according to IMO instruments

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.: 46 - Nonylphenol (CAS 84852-15-3) (not applicable)

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:

Nonylphenol (CAS 84852-15-3)

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

Version: Candidate List on 17 January 2022

RoHS - Directive 2011/65/EU This product is compatible with the current ROHS-Directive. (2011/65/EU, 2015/863/EU)

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### 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:

3 - stark wassergefährdend

### 15.2. Chemical Safety Assessment

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

## SECTION 16: Other information

### 16.1. Indication of changes

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

### 16.2. Abbreviations and acronyms

For abbreviations and acronyms, see table on the eSDScom website

-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

-EC<sub>50</sub>: Effective Concentration 50%

-ECHA: European Chemical Agency

-LC<sub>50</sub>: Lethal Concentration 50%

-LD<sub>50</sub>: 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]

| Hazard classes and hazard categories                              | Hazard statements                                                     | Classification procedure |
|-------------------------------------------------------------------|-----------------------------------------------------------------------|--------------------------|
| Acute toxicity (oral) ( <i>Acute Tox. 4</i> )                     | H302: Harmful if swallowed.                                           | Calculation method.      |
| 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> )                         | H360Fd: May damage fertility. Suspected of damaging the unborn child. | 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.      |

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### 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.                                               |
| H335              | May cause respiratory irritation.                                        |
| H360F             | May damage fertility.                                                    |
| H361fd            | Suspected of damaging fertility. Suspected of damaging the unborn child. |
| H400              | Very toxic to aquatic life.                                              |
| H410              | Very toxic to aquatic life with long lasting effects.                    |
| H412              | Harmful to aquatic life with long lasting effects.                       |

### 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

\* Data changed compared with the previous version