

Safety data Sheet

in accordance with SANS

Printing date 21.12.2022

Version number 2.0

Revision: 19.12.2022

1 Identification of the substance or mixture and of the supplier

- **Product identifier**

- **Trade name:** *Resin solution X 150*

- **Article number:** 1001.5679

- **Recommended use of the chemical and restrictions on use** *No further relevant information available.*

- **Application of the substance / the mixture** *Raw material for resins*

- **Supplier's details**

- **Manufacturer/Supplier:**

*Chemix GmbH
Chemixstraße 17
A-5020 Salzburg*

Tel.: 0043/662/21 22 23

- **Further information obtainable from:** *Product safety department.*

2 Hazard identification

- **Classification of the substance or mixture**



flame

Flam. Liq. 3

H226 Flammable liquid and vapour.



health hazard

Repr. 2

H361 Suspected of damaging fertility or the unborn child.

Asp. Tox. 1

H304 May be fatal if swallowed and enters airways.



environment

Aquatic Chronic 2

H411 Toxic to aquatic life with long lasting effects.



Skin Irrit. 2

H315 Causes skin irritation.

Serious eye damage/irritation – Category 2A H319 Causes serious eye irritation.

Skin Sens. 1

H317 May cause an allergic skin reaction.

STOT SE 3

H336 May cause drowsiness or dizziness.

Acute Tox. 5

H333 May be harmful if inhaled.

- **GHS label elements**

- **GHS label elements**

The product is classified and labelled according to the Globally Harmonised System (GHS).

- **Hazard pictograms**



GHS02

GHS07

GHS08

GHS09

- **Signal word** *Danger*

- **Hazard-determining components of labelling:**

*reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)
toluene*

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Hazard statements

Flammable liquid and vapour.
 May be harmful if inhaled.
 Causes skin irritation.
 Causes serious eye irritation.
 May cause an allergic skin reaction.
 Suspected of damaging fertility or the unborn child.
 May cause drowsiness or dizziness.
 May be fatal if swallowed and enters airways.
 Toxic to aquatic life with long lasting effects.

Precautionary statements

If medical advice is needed, have product container or label at hand.
 Keep out of reach of children.
 Read label before use.
 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
 Specific treatment (see on this label).
 Do NOT induce vomiting.
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 Take off contaminated clothing and wash it before reuse.
 Store locked up.
 Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards**Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition or information on ingredients

Chemical characterisation: Mixtures

· **Description:** Mixture of substances listed below with nonhazardous additions.

Dangerous components:

25068-38-6	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700) Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Serious eye damage/irritation – Category 2A, H319; Skin Sens. 1, H317	25-50%
108-88-3	toluene Flam. Liq. 2, H225; Repr. 2, H361; Asp. Tox. 1, H304; Skin Irrit. 2, H315; STOT SE 3, H336; Acute Tox. 5, H303	≥ 20 - ≤ 25 %
141-78-6	ethyl acetate Flam. Liq. 2, H225; Serious eye damage/irritation – Category 2A, H319; STOT SE 3, H336; Acute Tox. 5, H333	≥ 20 - ≤ 25 %
67-63-0	propan-2-ol Flam. Liq. 2, H225; Serious eye damage/irritation – Category 2A, H319; STOT SE 3, H336; Acute Tox. 5, H333	≥ 2.5 - < 10 %
78-92-2	butanol Flam. Liq. 3, H226; Serious eye damage/irritation – Category 2A, H319; STOT SE 3, H335	≥ 2.5 - < 10 %
7440-02-0	nickel Carc. 2, H351; STOT RE 1, H372; Skin Sens. 1, H317	≥ 0.1 - < 1 %
80-05-7	bisphenol A Repr. 1B, H360; Eye Dam. 1, H318; Skin Sens. 1, H317; STOT SE 3, H335; Acute Tox. 5, H303; Acute Tox. 5, H313	≥ 0.1 - < 0.3 %

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· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

4 First-aid measures

- **Description of necessary first-aid measures**
- **General information:**
*Immediately remove any clothing soiled by the product.
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.*
- **After inhalation:**
*Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.*
- **After skin contact:** *Immediately wash with water and soap and rinse thoroughly.*
- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** *If symptoms persist consult doctor.*
- **Information for doctor:**
- **Most important symptoms or effects, acute and delayed** *No further relevant information available.*
- **Indication of immediate medical attention and special treatment needed, if necessary**
No further relevant information available.

5 Fire-fighting measures

- **Suitable extinguishing media**
- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** *Water with full jet*
- **Specific hazards arising from the chemical** *During heating or in case of fire poisonous gases are produced.*
- **Special protective actions for fire fighters**
- **Protective equipment:** *Mouth respiratory protective device.*

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
*Mount respiratory protective device.
Wear protective equipment. Keep unprotected persons away.*
- **Environmental precautions:** *Do not allow to enter sewers/ surface or ground water.*
- **Methods and material for containment and cleaning up:**
*Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.*
- **Reference to other sections**
*See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.*

7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
*Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
Prevent formation of aerosols.*
- **Information about fire - and explosion protection:**
Keep ignition sources away - Do not smoke.

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Protect against electrostatic charges.
Keep respiratory protective device available.

- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** *No special requirements.*
- **Information about storage in one common storage facility:** *Not required.*
- **Further information about storage conditions:** *Keep container tightly sealed.*
- **Specific end use(s)** *No further relevant information available.*

8 Exposure controls or personal protection

- **Additional information about design of technical facilities:** *No further data; see item 7.*
- **Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

108-88-3 toluene

OEL	Long-term value: 40 ppm SKIN
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141-78-6 ethyl acetate

OEL	Long-term value: 800 ppm
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67-63-0 propan-2-ol

OEL	Short-term value: 800 ppm Long-term value: 400 ppm
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78-92-2 butanol

OEL	Long-term value: 200 ppm
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7440-02-0 nickel

OEL	Long-term value: 3 mg/m ³ elemental, CARC, SKIN
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- **Additional information:** *The lists valid during the making were used as basis.*
- **Exposure controls**
- **Individual protection measures, such as personal protective equipment (PPE)**
- **General protective and hygienic measures:**
 - Keep away from foodstuffs, beverages and feed.*
 - Immediately remove all soiled and contaminated clothing*
 - Wash hands before breaks and at the end of work.*
 - Store protective clothing separately.*
 - Avoid contact with the eyes and skin.*
- **Respiratory protection:**
 - In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.*
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

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· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye or face protection**



Tightly sealed goggles

9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form:

Fluid

Colour:

According to product specification

· **Odour:**

Characteristic

· **Odour threshold:**

Not determined.

· **pH-value:**

Not determined.

· **Change in condition**

Melting point/freezing point:

Undetermined.

Initial boiling point and boiling range

77-78 °C

· **Flash point:**

25 °C

· **Flammability (solid, gas):**

Flammable.

· **Ignition temperature:**

390 °C

· **Decomposition temperature:**

Not determined.

· **Auto-ignition temperature:**

Product is not selfigniting.

· **Explosive properties:**

Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· **Upper or lower flammability or explosive limits**

Lower:

1.2 Vol %

Upper:

11.5 Vol %

· **Vapour pressure at 20 °C:**

97 hPa

· **Density:**

Not determined.

· **Relative density**

Not determined.

· **Vapour density**

Not determined.

· **Evaporation rate**

Not determined.

· **Solubility in / Miscibility with water:**

Not miscible or difficult to mix.

· **Partition coefficient: n-octanol or water**

Not determined.

· **Viscosity:**

Dynamic:

Not determined.

Viscosity

Not determined.

· **Solvent content:**

Organic solvents:

49.0 %

VOC (EC)

49.00 %

Solids content:

50.0 %

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· **Other information***No further relevant information available.*

10 Stability and reactivity

- **Reactivity** *No further relevant information available.*
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** *No decomposition if used according to specifications.*
- **Possibility of hazardous reactions** *No dangerous reactions known.*
- **Conditions to avoid** *No further relevant information available.*
- **Incompatible materials:** *No further relevant information available.*
- **Hazardous decomposition products:** *No dangerous decomposition products known.*

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity**

· **LD/LC50 values relevant for classification:***ATE (Acute Toxicity Estimates)*

<i>Oral</i>	<i>LD50</i>	<i>25,000 mg/kg (rat)</i>
<i>Inhalative</i>	<i>LC50/4 h</i>	<i>558 mg/l (rat)</i>

108-88-3 toluene

<i>Oral</i>	<i>LD50</i>	<i>5,000 mg/kg (rat)</i>
<i>Dermal</i>	<i>LD50</i>	<i>12,124 mg/kg (rabbit)</i>
<i>Inhalative</i>	<i>LC50/4 h</i>	<i>5,320 mg/l (mouse)</i>

141-78-6 ethyl acetate

<i>Oral</i>	<i>LD50</i>	<i>5,620 mg/kg (rabbit)</i>
<i>Inhalative</i>	<i>LC50/4 h</i>	<i>1,600 mg/l (rat)</i>

67-63-0 propan-2-ol

<i>Oral</i>	<i>LD50</i>	<i>5,045 mg/kg (rat)</i>
<i>Dermal</i>	<i>LD50</i>	<i>12,800 mg/kg (rabbit)</i>
<i>Inhalative</i>	<i>LC50/4 h</i>	<i>30 mg/l (rat)</i>

78-92-2 butanol

<i>Oral</i>	<i>LD50</i>	<i>6,480 mg/kg (rat)</i>
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80-05-7 bisphenol A

<i>Oral</i>	<i>LD50</i>	<i>3,250 mg/kg (rat)</i>
<i>Dermal</i>	<i>LD50</i>	<i>3,000 mg/kg (rabbit)</i>

- **Primary irritant effect:**
- **Skin corrosion or irritation** *Irritant to skin and mucous membranes.*
- **Serious eye damage or irritation** *Irritating effect.*
- **Respiratory and skin sensitization** *Sensitisation possible through skin contact.*
- **Additional toxicological information:**
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
Irritant
- **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)**
Repr. 2

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12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** *No further relevant information available.*
- **Persistence and degradability** *No further relevant information available.*
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** *No further relevant information available.*
- **Mobility in soil** *No further relevant information available.*
- **Additional ecological information:**
- **General notes:**
*Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
 Do not allow product to reach ground water, water course or sewage system.
 Danger to drinking water if even small quantities leak into the ground.*
- **Results of PBT and vPvB assessment**
- **PBT:** *Not applicable.*
- **vPvB:** *Not applicable.*
- **Other adverse effects** *No further relevant information available.*

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** *Disposal must be made according to official regulations.*

14 Transport information

- | | |
|--|--|
| <ul style="list-style-type: none"> · UN number · ADR, IMDG, IATA | <p style="text-align: right;"><i>UN1993</i></p> |
| <ul style="list-style-type: none"> · UN proper shipping name · ADR · IMDG · IATA | <p style="text-align: right;"><i>FLAMMABLE LIQUID, N.O.S. (ETHYL ACETATE, TOLUENE), ENVIRONMENTALLY HAZARDOUS</i></p> <p style="text-align: right;"><i>FLAMMABLE LIQUID, N.O.S. (ETHYL ACETATE, TOLUENE), MARINE POLLUTANT</i></p> <p style="text-align: right;"><i>FLAMMABLE LIQUID, N.O.S. (ETHYL ACETATE, TOLUENE)</i></p> |
| <ul style="list-style-type: none"> · Transport hazard class(es) · ADR, IMDG | <div style="display: flex; align-items: center; gap: 10px;">   </div> <p style="text-align: right;"><i>3 Flammable liquids.</i></p> <p style="text-align: right;"><i>3</i></p> |
| <ul style="list-style-type: none"> · IATA | <div style="display: flex; align-items: center; gap: 10px;">  </div> <p style="text-align: right;"><i>3 Flammable liquids.</i></p> |

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· Label	3
· Packing group · ADR, IMDG, IATA	III
· Environmental hazards: · Marine pollutant: · Special marking (ADR):	<i>Product contains environmentally hazardous substances: 2-methyl-2H-isothiazol-3-one</i> <i>Symbol (fish and tree)</i> <i>Symbol (fish and tree)</i>
· Special precautions for user · Hazard identification number (Kemler code): · EMS Number: · Stowage Category	<i>Warning: Flammable liquids.</i> 30 <i>F-E, S-E</i> A
· Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	<i>Not applicable.</i>
· Transport/Additional information:	
· ADR · Limited quantities (LQ) · Excepted quantities (EQ) · Transport category · Tunnel restriction code	5L <i>Code: E1</i> <i>Maximum net quantity per inner packaging: 30 ml</i> <i>Maximum net quantity per outer packaging: 1000 ml</i> 3 <i>D/E</i>
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	5L <i>Code: E1</i> <i>Maximum net quantity per inner packaging: 30 ml</i> <i>Maximum net quantity per outer packaging: 1000 ml</i>
· UN "Model Regulation":	<i>UN 1993 FLAMMABLE LIQUID, N.O.S. (ETHYL ACETATE, TOLUENE), 3, III, ENVIRONMENTALLY HAZARDOUS</i>

15 Regulatory information

- **Safety, health and environmental regulations specific for the product in question**
No further relevant information available.
- **Chemical safety assessment:** *A Chemical Safety Assessment has been carried out.*

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**
H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H303 May be harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H313 May be harmful in contact with skin.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H333 May be harmful if inhaled.
H335 May cause respiratory irritation.

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H336 May cause drowsiness or dizziness.

H351 Suspected of causing cancer.

H360 May damage fertility or the unborn child.

H361 Suspected of damaging fertility or the unborn child.

H372 Causes damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

· **Department issuing SDS:** *Product safety department.*

· **Contact:** *Dr. Peter Mayer*

· **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 5: Acute toxicity – Category 5

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Serious eye damage/irritation – Category 2A: Serious eye damage/eye irritation – Category 2A

Skin Sens. 1: Skin sensitisation – Category 1

Carc. 2: Carcinogenicity – Category 2

Repr. 1B: Reproductive toxicity – Category 1B

Repr. 2: Reproductive toxicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

· *** Data compared to the previous version altered.**

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