Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 16.12.2022 *Version number 2.0 (replaces version 1.0)* *Revision: 16.12.2022*

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

· **1.1 Product identifier**

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

· **Article number:**
1001.5678

Nanoform
· **1.2 Relevant identified uses of the substance or mixture and uses advised against**
· **Sector of Use** *SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites*
· **Product category** *PC19 Intermediate*
· **Process category** *PROC5 Mixing or blending in batch processes*
· **Environmental release category** *ERC2 Formulation into mixture*
· **Article category** *AC13 Plastic articles*
· **Application of the substance / the mixture** *Raw material for resins*

· **1.3 Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
Chemix GmbH
Chemixstraße 17
A-5020 Salzburg *Tel.: 0043/662/21 22 23*

· **Further information obtainable from:** *Product safety department.*
· **1.4 Emergency telephone number:**
Members of the public seeking specific information on poisons should contact:
In England and Wales: NHS 111 - dial 111
In Scotland: NHS 24 - dial 111

SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**
· **Classification according to Regulation (EC) No 1272/2008**

GHS02 flame

Flam. Liq. 3 *H226 Flammable liquid and vapour.*

GHS08 health hazard

Repr. 2 *H361d Suspected of damaging the unborn child.*
STOT RE 2 *H373 May cause damage to organs through prolonged or repeated exposure.*
Asp. Tox. 1 *H304 May be fatal if swallowed and enters airways.*

GHS09 environment

Aquatic Chronic 2 *H411 Toxic to aquatic life with long lasting effects.*

GHS07

Skin Irrit. 2 *H315 Causes skin irritation.*
Eye Irrit. 2 *H319 Causes serious eye irritation.*
Skin Sens. 1 *H317 May cause an allergic skin reaction.*
STOT SE 3 *H336 May cause drowsiness or dizziness.*

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· **2.2 Label elements**
· **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the GB CLP regulation.
· **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
ethyl acetate
2-methyl-2H-isothiazol-3-one
nickel
bisphenol A
· **Hazard statements**
H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H361d Suspected of damaging the unborn child.
H336 May cause drowsiness or dizziness.
H373 May cause damage to organs through prolonged or repeated exposure.
H304 May be fatal if swallowed and enters airways.
H411 Toxic to aquatic life with long lasting effects.
· **Precautionary statements**
P101 *If medical advice is needed, have product container or label at hand.*
P102 *Keep out of reach of children.*
P103 *Read carefully and follow all instructions.*
P210 *Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.*
P301+P310 *IF SWALLOWED: Immediately call a POISON CENTER/ doctor.*
P321 *Specific treatment (see on this label).*
P331 *Do NOT induce vomiting.*
P303+P361+P353 *IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].*
P305+P351+P338 *IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.*
P362+P364 *Take off contaminated clothing and wash it before reuse.*
P405 *Store locked up.*
P501 *Dispose of contents/container in accordance with local/regional/national/international regulations.*
· **2.3 Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** *Not applicable.*
· **vPvB:** *Not applicable.*

· **Determination of endocrine-disrupting properties**		
80-05-7	*bisphenol A*	*List I*

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SECTION 3: Composition/information on ingredients

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

· **Dangerous components:**

CAS: 25068-38-6 *NLP: 500-033-5* *Index number: 603-074-00-8*	*reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)* *Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317, EUH205* *Specific concentration limits: Eye Irrit. 2; H319: C ≥ 5 %* *Skin Irrit. 2; H315: C ≥ 5 %*	*25-50%*
CAS: 108-88-3 *EINECS: 203-625-9* *Index number: 601-021-00-3*	*toluene* *Flam. Liq. 2, H225; Repr. 2, H361d; STOT RE 2, H373; Asp. Tox. 1, H304; Skin Irrit. 2, H315; STOT SE 3, H336*	*≥20-≤25%*
CAS: 141-78-6 *EINECS: 205-500-4* *Index number: 607-022-00-5*	*ethyl acetate* *Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336, EUH066*	*≥20-≤25%*
CAS: 67-63-0 *EINECS: 200-661-7* *Index number: 603-117-00-0*	*propan-2-ol* *Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336*	*≥2.5-<10%*
CAS: 78-92-2 *EINECS: 201-158-5* *Index number: 603-127-00-5*	*butanol* *Flam. Liq. 3, H226; Eye Irrit. 2, H319; STOT SE 3, H335-H336*	*≥2.5-<10%*
CAS: 7440-02-0 *EINECS: 231-111-4* *Index number: 028-002-00-7*	*nickel* *Carc. 2, H351; STOT RE 1, H372; Skin Sens. 1, H317* *Nanoform: crystalline nanoform, non-surface-treated nanoforms*	*≥0.1-<1%*
CAS: 80-05-7 *EINECS: 201-245-8* *Index number: 604-030-00-0*	*bisphenol A* *Repr. 1B, H360F; Eye Dam. 1, H318; Skin Sens. 1, H317; STOT SE 3, H335*	*≥0.1-<0.3%*
CAS: 2682-20-4 *EINECS: 220-239-6* *Index number: 613-326-00-9*	*2-methyl-2H-isothiazol-3-one* *Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 2, H330; Skin Corr. 1B, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1); Skin Sens. 1A, H317* *Specific concentration limit: Skin Sens. 1A; H317: C ≥ 0.0015 %*	*<0.0015%*

· **SVHC**

80-05-7	*bisphenol A*

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

SECTION 4: First aid measures

· **4.1 Description of 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.*
· **4.2 Most important symptoms and effects, both acute and delayed**
No further relevant information available.

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· **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

· **5.1 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*
· **5.2 Special hazards arising from the substance or mixture**
During heating or in case of fire poisonous gases are produced.
· **5.3 Advice for firefighters**
· **Protective equipment:** *Mouth respiratory protective device.*

SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**
Mount respiratory protective device.
Wear protective equipment. Keep unprotected persons away.
· **6.2 Environmental precautions:**
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
· **6.3 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.
· **6.4 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.

SECTION 7: Handling and storage

· **7.1 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.
Protect against electrostatic charges.
Keep respiratory protective device available.

· **7.2 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.*
· **7.3 Specific end use(s)** *No further relevant information available.*

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SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**	
108-88-3 toluene	
WEL	*Short-term value: 384 mg/m³, 100 ppm* *Long-term value: 191 mg/m³, 50 ppm* *Sk*
141-78-6 ethyl acetate	
WEL	*Short-term value: 1468 mg/m³, 400 ppm* *Long-term value: 734 mg/m³, 200 ppm*
67-63-0 propan-2-ol	
WEL	*Short-term value: 1250 mg/m³, 500 ppm* *Long-term value: 999 mg/m³, 400 ppm*
78-92-2 butanol	
WEL	*Short-term value: 462 mg/m³, 150 ppm* *Long-term value: 308 mg/m³, 100 ppm*
7440-02-0 nickel	
WEL	*Long-term value: 0.5 mg/m³* *as Ni; Sk; Carc*

· **Regulatory information** *WEL: EH40/2020*
· **Additional information:** *The lists valid during the making were used as basis.*

· **8.2 Exposure controls**
· **Appropriate engineering controls** *No further data; see item 7.*
· **Individual protection measures, such as personal protective equipment**
· **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.
· **Hand protection**

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.
· **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.

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· **Eye/face protection**

Tightly sealed goggles

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**	
· **General Information**	
· **Physical state**	*Fluid*
· **Colour:**	*According to product specification*
· **Odour:**	*Characteristic*
· **Odour threshold:**	*Not determined.*
· **Melting point/freezing point:**	*Undetermined.*
· **Boiling point or initial boiling point and boiling range**	*77-78 °C (141-78-6 ethyl acetate)*
· **Flammability**	*Flammable.*
· **Lower and upper explosion limit**	
· **Lower:**	*1.2 Vol %*
· **Upper:**	*11.5 Vol %*
· **Flash point:**	*25 °C*
· **Ignition temperature:**	*390 °C*
· **Decomposition temperature:**	*Not determined.*
· **pH**	*Not determined.*
· **Viscosity:**	
· **Kinematic viscosity**	*Not determined.*
· **Dynamic:**	*Not determined.*
· **Solubility**	
· **water:**	*Not miscible or difficult to mix.*
· **Partition coefficient n-octanol/water (log value)**	*Not determined.*
· **Vapour pressure at 20 °C:**	*97 hPa*
· **Density and/or relative density**	
· **Density:**	*Not determined.*
· **Relative density**	*Not determined.*
· **Vapour density**	*Not determined.*

· **9.2 Other information**	
· **Appearance:**	
· **Form:**	*Fluid*
· **Important information on protection of health and environment, and on safety.**	
· **Auto-ignition temperature:**	*Product is not selfigniting.*
· **Explosive properties:**	*Product is not explosive. However, formation of explosive air/vapour mixtures are possible.*
· **Solvent content:**	
· **Organic solvents:**	*49.0 %*
· **VOC (EC)**	*49.00 %*
· **Solids content:**	*50.0 %*
· **Change in condition**	
· **Evaporation rate**	*Not determined.*

· **Information with regard to physical hazard classes**	
· **Explosives**	*Void*
· **Flammable gases**	*Void*
· **Aerosols**	*Void*
· **Oxidising gases**	*Void*

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· **Gases under pressure**	*Void*
· **Flammable liquids**	*Flammable liquid and vapour.*
· **Flammable solids**	*Void*
· **Self-reactive substances and mixtures**	*Void*
· **Pyrophoric liquids**	*Void*
· **Pyrophoric solids**	*Void*
· **Self-heating substances and mixtures**	*Void*
· **Substances and mixtures, which emit flammable gases in contact with water**	*Void*
· **Oxidising liquids**	*Void*
· **Oxidising solids**	*Void*
· **Organic peroxides**	*Void*
· **Corrosive to metals**	*Void*
· **Desensitised explosives**	*Void*

SECTION 10: Stability and reactivity

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

SECTION 11: Toxicological information

· **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
· **Acute toxicity** *Based on available data, the classification criteria are not met.*

· **LD/LC50 values relevant for classification:**		
108-88-3 toluene		
Oral	*LD50*	*5,000 mg/kg (rat)*
Dermal	*LD50*	*12,124 mg/kg (rabbit)*
Inhalative	*LC50/4 h*	*5,320 mg/l (mouse)*
141-78-6 ethyl acetate		
Oral	*LD50*	*5,620 mg/kg (rabbit)*
Inhalative	*LC50/4 h*	*1,600 mg/l (rat)*
67-63-0 propan-2-ol		
Oral	*LD50*	*5,045 mg/kg (rat)*
Dermal	*LD50*	*12,800 mg/kg (rabbit)*
Inhalative	*LC50/4 h*	*30 mg/l (rat)*
78-92-2 butanol		
Oral	*LD50*	*6,480 mg/kg (rat)*
80-05-7 bisphenol A		
Oral	*LD50*	*3,250 mg/kg (rat)*
Dermal	*LD50*	*3,000 mg/kg (rabbit)*

· **Skin corrosion/irritation** *Causes skin irritation.*
· **Serious eye damage/irritation** *Causes serious eye irritation.*
· **Respiratory or skin sensitisation** *May cause an allergic skin reaction.*
· **Germ cell mutagenicity** *Based on available data, the classification criteria are not met.*
· **Carcinogenicity** *Based on available data, the classification criteria are not met.*

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· **Reproductive toxicity** *Suspected of damaging the unborn child.*
· **STOT-single exposure** *May cause drowsiness or dizziness.*
· **STOT-repeated exposure** *May cause damage to organs through prolonged or repeated exposure.*
· **Aspiration hazard** *May be fatal if swallowed and enters airways.*
· **11.2 Information on other hazards**

· **Endocrine disrupting properties**		
80-05-7	*bisphenol A*	*List I*

SECTION 12: Ecological information

· **12.1 Toxicity**
· **Aquatic toxicity:** *No further relevant information available.*
· **12.2 Persistence and degradability** *No further relevant information available.*
· **12.3 Bioaccumulative potential** *No further relevant information available.*
· **12.4 Mobility in soil** *No further relevant information available.*
· **12.5 Results of PBT and vPvB assessment**
· **PBT:** *Not applicable.*
· **vPvB:** *Not applicable.*
· **12.6 Endocrine disrupting properties** *For information on endocrine disrupting properties see section 11.*
· **12.7 Other adverse effects**
· **Remark:** *Toxic for fish*
· **Additional ecological information:**
· **General notes:**
Also poisonous for fish and plankton in water bodies.
Toxic for aquatic organisms
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.

SECTION 13: Disposal considerations

· **13.1 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.*

SECTION 14: Transport information

· **14.1 UN number or ID number**	
· **ADR, IMDG, IATA**	*UN1993*
· **14.2 UN proper shipping name**	
· **ADR**	*FLAMMABLE LIQUID, N.O.S. (ETHYL ACETATE, TOLUENE), ENVIRONMENTALLY HAZARDOUS*
· **IMDG**	*FLAMMABLE LIQUID, N.O.S. (ETHYL ACETATE, TOLUENE), MARINE POLLUTANT*
· **IATA**	*FLAMMABLE LIQUID, N.O.S. (ETHYL ACETATE, TOLUENE)*

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· **14.3 Transport hazard class(es)**

· **ADR, IMDG**

· **Class**	*3 Flammable liquids.*
· **Label**	*3*

· **IATA**

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

SECTION 15: Regulatory information

· **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **Directive 2012/18/EU**

· **Named dangerous substances - ANNEX I** *None of the ingredients is listed.*

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· **Seveso category**
E2 Hazardous to the Aquatic Environment
P5c FLAMMABLE LIQUIDS
· **Qualifying quantity (tonnes) for the application of lower-tier requirements** *200 t*
· **Qualifying quantity (tonnes) for the application of upper-tier requirements** *500 t*
· **REGULATION (EC) No 1907/2006 ANNEX XVII** *Conditions of restriction: 3, 27, 48*

· **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**
None of the ingredients is listed.

· **REGULATION (EU) 2019/1148**

· **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**
None of the ingredients is listed.

· **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**
None of the ingredients is listed.

· **Regulation (EC) No 273/2004 on drug precursors**		
108-88-3	*toluene*	*3*

· **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**		
108-88-3	*toluene*	*3*

· **National regulations:**

· **Other regulations, limitations and prohibitive regulations**

· **Substances of very high concern (SVHC) according to REACH, Article 57**	
80-05-7	*bisphenol A*

· **Substances of very high concern (SVHC) according to UK REACH**	
80-05-7	*bisphenol A*

· **15.2 Chemical safety assessment:** *A Chemical Safety Assessment has been carried out.*

SECTION 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.
H301 Toxic if swallowed.
H304 May be fatal if swallowed and enters airways.
H311 Toxic 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.
H330 Fatal if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H351 Suspected of causing cancer.
H360F May damage fertility.
H361d Suspected of damaging the unborn child.
H372 Causes damage to organs through prolonged or repeated exposure.
H373 May cause damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.

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H410 Very toxic to aquatic life with long lasting effects.
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.

· **Classification according to Regulation (EC) No 1272/2008**

Flammable liquids	*Bridging principles*
Skin corrosion/irritation *Serious eye damage/irritation* *Skin sensitisation* *Reproductive toxicity* *Specific target organ toxicity (single exposure)* *Specific target organ toxicity (repeated exposure)* *Hazardous to the aquatic environment - long-term (chronic) aquatic hazard*	*The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.*
Aspiration hazard	*Expert judgement*

· **Department issuing SDS:** *Product safety department.*
· **Contact:** *Dr. Peter Mayer*
· **Date of previous version:** *05.12.2022*
· **Version number of previous version:** *1.0*
· **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
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
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
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 2: Flammable liquids – Category 2
Flam. Liq. 3: Flammable liquids – Category 3
Acute Tox. 3: Acute toxicity – Category 3
Acute Tox. 2: Acute toxicity – Category 2
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1: Skin sensitisation – Category 1
Skin Sens. 1A: Skin sensitisation – Category 1A
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
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
Asp. Tox. 1: Aspiration hazard – Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
· *** Data compared to the previous version altered.**

Annex: Exposure scenario

· **Short title of the exposure scenario**
· **Sector of Use** *SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites*
· **Product category** *PC19 Intermediate*
· **Process category** *PROC5 Mixing or blending in batch processes*

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Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 16.12.2022 *Version number 2.0 (replaces version 1.0)* *Revision: 16.12.2022*

Trade name: *Resin solution X 150*

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· **Article category** *AC13 Plastic articles*
· **Environmental release category** *ERC2 Formulation into mixture*
· **Description of the activities / processes covered in the Exposure Scenario**
See section 1 of the annex to the Safety Data Sheet.
· **Conditions of use**
· **Duration and frequency** *5 workdays/week.*
· **Physical parameters**
· **Physical state** *Fluid*
· **Concentration of the substance in the mixture** *The substance is main component.*
· **Used amount per time or activity** *2 tons per day*
· **Other operational conditions**
· **Other operational conditions affecting environmental exposure** *Use only on hard ground.*
· **Other operational conditions affecting worker exposure**
Avoid contact with eyes.
Avoid contact with the skin.
Avoid long-term or repeated skin contact.
Take precautionary measures against static discharge.
Keep away from sources of ignition - No smoking.
· **Other operational conditions affecting consumer exposure** *No special measures required.*
· **Other operational conditions affecting consumer exposure during the use of the product** *Not applicable.*
· **Risk management measures**
· **Worker protection**
· **Organisational protective measures** *No special measures required.*
· **Technical protective measures**
Provide explosion-proof electrical equipment.
Use product only in enclosed systems.
Ensure that suitable extractors are available on processing machines
· **Personal protective measures**
Do not inhale gases / fumes / aerosols.
Avoid contact with the skin.
Avoid contact with the eyes.
Pregnant women should strictly avoid inhalation or skin contact.
Tightly sealed goggles
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
· **Measures for consumer protection** *Ensure adequate labelling.*
· **Environmental protection measures**
· **Water** *Do not allow to reach sewage system.*
· **Soil** *Prevent contamination of soil.*
· **Disposal measures** *Ensure that waste is collected and contained.*
· **Disposal procedures**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
· **Waste type** *Partially emptied and uncleaned packaging*
· **Exposure estimation**
· **Consumer** *Not relevant for this Exposure Scenario.*
· **Guidance for downstream users** *No further relevant information available.*