


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

- **1.1 Product identifier**
- **Trade name: GM 951-1 gelb transparent Komp. B**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture**
Hardener component of a 2-component special resin system for industrial or professional applications
- **Applications, which are not recommended:** Not suitable for do-it-yourself-applications
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
ebalta Kunststoff GmbH
Erlbacher Str. 100
D-91541 Rothenburg ob der Tauber
- **Further information obtainable from:** Product Safety
- **1.4 Emergency telephone number:**
Giftnotruf München 0049-89-19240, Notfallrufnummer 0049-171-7998145
prosich@ebalta.de

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
Acute Tox. 4 H302 Harmful if swallowed.
Acute Tox. 3 H311 Toxic in contact with skin.
Acute Tox. 2 H330 Fatal if inhaled.
Skin Corr. 1A H314 Causes severe skin burns and eye damage.
Eye Dam. 1 H318 Causes serious eye damage.
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.
Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**


GHS05 GHS06 GHS08 GHS09
- **Signal word** Danger
- **Hazard-determining components of labelling:**
2,2'-dimethyl-4,4'-methylenebis(cyclohexylamine)
Bis(isopropyl)naphthalin
N,N,N'-Dimethylaminopropyl hexahydrotriazin
1,8-diazabicyclo[5.4.0]undec-7-ene
- **Hazard statements**
H302 Harmful if swallowed.
H311 Toxic in contact with skin.
H330 Fatal if inhaled.
H314 Causes severe skin burns and eye damage.
H373 May cause damage to organs through prolonged or repeated exposure.
H304 May be fatal if swallowed and enters airways.
H410 Very toxic to aquatic life with long lasting effects.

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· **Precautionary statements**

- P301+P310 *IF SWALLOWED: Immediately call a POISON CENTER/ doctor.*
 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.*
 P320 *Specific treatment is urgent (see on this label).*
 P361+P364 *Take off immediately all contaminated clothing and wash it before reuse.*
 P405 *Store locked up.*
 P501 *Dispose of contents/container in accordance with local/regional/national/international regulations.*

· **Additional information:**

Contains 4,4'-methylenebis(cyclohexylamine). May produce an allergic reaction.

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

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

SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**

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

· **Dangerous components:**

CAS: 38640-62-9 EINECS: 254-052-6 Reg.nr.: 01-2119565150-48-0000	Bis(isopropyl)naphthalin Asp. Tox. 1, H304; Aquatic Chronic 1, H410	50 – 100%
CAS: 6864-37-5 EINECS: 229-962-1 Reg.nr.: 01-2119497829-12-XXXX	2, 2'-dimethyl-4, 4'methylenebis(cyclohexylamine) Acute Tox. 3, H311; Acute Tox. 1, H330; STOT RE 2, H373; Skin Corr. 1A, H314; Aquatic Chronic 2, H411; Acute Tox. 4, H302	≥ 10 – < 25%
CAS: 15875-13-5 Reg.nr.: 01-2119983514-30-XXXX	N,N,N'-Dimethylaminopropyl hexahydrotriazin Eye Dam. 1, H318; Acute Tox. 4, H312; Skin Irrit. 2, H315	≥ 3 – < 10%
CAS: 6674-22-2 EINECS: 229-713-7 Reg.nr.: 01-2119456811-38	1,8-diazabicyclo[5.4.0]undec-7-ene Acute Tox. 3, H301; Skin Corr. 1B, H314	< 1%
CAS: 1761-71-3 EINECS: 217-168-8 Reg.nr.: 01-2119541673-38-xxxx	4,4'-methylenebis(cyclohexylamine) STOT RE 2, H373; Skin Corr. 1A, H314; Aquatic Chronic 2, H411; Acute Tox. 4, H302; Skin Sens. 1, H317	≥ 0.1 – < 0.25%

· **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. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

· **After skin contact:**

Seek medical treatment.

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Immediately wash with water and soap and rinse thoroughly.

· **After eye contact:**

Rinse opened eye for several minutes under running water. Then consult a doctor.

· **After swallowing:**

Do not induce vomiting; call for medical help immediately.

Drink plenty of water and provide fresh air. Call for a doctor immediately.

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

No further relevant information available.

· **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.

· **For safety reasons unsuitable extinguishing agents:** Water with full jet

· **5.2 Special hazards arising from the substance or mixture** Smoke

· **5.3 Advice for firefighters**

· **Protective equipment:** Mouth respiratory protective device.

· **Additional information**

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

Wear protective clothing.

· **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.

· **6.3 Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Use neutralising agent.

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.

Prevent formation of aerosols.

The air limiting values mentioned in chapter 8 have to be controlled. At places of work, where aerosols and/or fumes can occur in higher concentrations, exceeding of limiting hygienic values has to be prevented by specific air exhaust. The air motions have to be carried out from the persons away.

· **Information about fire - and explosion protection:** No special measures required.

· **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:**

Store away from foodstuffs.

Do not store together with acids.

Store away from oxidising agents.

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Keep away from alkaline materials.

Store away from foodstuffs.

· **Further information about storage conditions:**

Store receptacle in a well ventilated area.

Keep container tightly closed.

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

SECTION 8: Exposure controls/personal protection

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

· **8.1 Control parameters**

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

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· **DNELs**

38640-62-9 Bis(isopropyl)naphthalin

Dermal	DNEL/DMEL Werte	4.3 mg/kg (Worker (long-term)) 2.1 mg/kg (Consumer (long-term))
Inhalative	DNEL/DMEL Werte	30 mg/m ³ (Worker (long-term)) 7.4 mg/m ³ (Consumer (long-term))

· **PNECs**

38640-62-9 Bis(isopropyl)naphthalin

NOEC (21 d)	0.013 mg/l (daphnia magna) ((OECD 202, part 2))
PNEC	0.19 mg/l (Sediment)
PNEC STP	0.15 mg/l
PNEC (wässrig)	94 mg/l (seawater) 0.94 mg/l (freshwater)

· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**

· **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.

Avoid contact with the eyes and skin.

· **Respiratory protection:**

In case of exceeding the limit value.

Filter A2/P2

· **Protection of hands:**

Protective gloves

For the permanent contact gloves made of Nitril with a layer thickness of at least 0.20 mm are suitable. The penetration time of this glove material is 480 minutes.

The glove material has to be according the requirement of EU-guideline 89/686/EWG and the resulting norm EN374, for example KCL Dermatril P, Art. 0743. The above mentioned penetration times are based on laboratory measurements of KCL according to EN 374.

This recommendation is only valid for the product, which is delivered from us and only for the intended mentioned application. Regarding dissolution or mixing with other substances please contact suppliers of CE-approved gloves. (For example KCL GmbH, D-36124 Eichenzell, internet: www.kcl.de)

ebalta gives this recommendation in good faith, without liability for any claims arising from the recommendation or the use of the suggested protection gloves.

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· **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.

· **Eye protection:**



Tightly sealed goggles

· **Body protection:** Protective work clothing

SECTION 9: Physical and chemical properties

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

· **General Information**

· **Appearance:**

· Form:	Fluid
· Colour:	Yellowish
· Odour:	Characteristic
· Odour threshold:	Not determined.

· **pH-value:** Not determined.

· **Change in condition**

· Melting point/freezing point:	Undetermined.
· Initial boiling point and boiling range:	> 200 °C (DIN 53171)

· **Flash point:** > 100 °C (c.c.)

· **Flammability (solid, gas):** Not applicable.

· **Ignition temperature:** 275 °C (DIN 51794)

· **Decomposition temperature:** Not determined.

· **Auto-ignition temperature:** Product is not selfigniting.

· **Explosive properties:** Product does not present an explosion hazard.

· **Explosion limits:**

· Lower:	0.4 Vol %
· Upper:	4.7 Vol %

· **Vapour pressure:** Not determined.

· **Density at 20 °C:** 0.96 g/cm³ (ISO 2811)

· **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/water:** Not determined.

· **Viscosity:**

· Dynamic at 20 °C:	25 mPas (ISO 9371)
· Kinematic:	Not determined.

· **Solvent content:**

· **Organic solvents:** 0.0 %

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· 9.2 Other information

No further relevant information available.

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**
Reacts with strong acids (intensive development of heat), alkali and oxidizing agents. Reacts e.g. with epoxy resins (intensive development of heat).
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**
Carbon monoxide and carbon dioxide
Nitrogen oxides (NO_x)
Smoke.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity**
Harmful if swallowed.
Toxic in contact with skin.
Fatal if inhaled.

· LD/LC50 values relevant for classification:

38640-62-9 Bis(isopropyl)naphthalin

Oral	LD50	> 4,000 mg/kg (rat)
	NOAEL Langzeittoxizität	170 mg/kg (rat)
Dermal	LD50	> 4,000 mg/kg (rat)
Inhalative	LC50/4 h Aerosole	> 5.6 mg/l (rat) ((OECD 403 (Aerosol)))
6864-37-5 2,2'-dimethyl-4,4'-methylenebis(cyclohexylamine)		
Oral	LD50	> 320 – 460 mg/kg (rat)
Dermal	LD50	> 200 – 400 mg/kg (rabbit)
Inhalative	LC50/4 h	0.42 mg/l (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation**
Causes severe skin burns and eye damage.
- **Serious eye damage/irritation**
Causes serious eye damage.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure**
May cause damage to organs through prolonged or repeated exposure.
- **Aspiration hazard**
May be fatal if swallowed and enters airways.

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SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**

38640-62-9 Bis(isopropyl)naphthalin

EC0 (72h)	0.15 mg/l (Al) ((OECD 201))
EC0 (48h)	0.16 mg/l (daphnia magna) ((DIN 38412, part 11))
LL50 (48h)	1.7 mg/l (daphnia magna) ((loading, OECD 202))
LC0 (96 h)	0.5 mg/l (fish) ((nominal; OECD 203))

· **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.

· **Additional ecological information:**

· **General notes:**

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Danger to drinking water if even extremely small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

· **12.5 Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **12.6 Other adverse effects** No further relevant information available.

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.

· **Waste disposal key:**

The Waste-Key-Numbers have to be given from the waste-producer depending on the respective trade. Therefore no information can be stated from the manufacturer.

· **European waste catalogue**

HP 5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
HP 6	Acute Toxicity
HP 8	Corrosive
HP 14	Ecotoxic

· **Uncleaned packaging:**

· **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

· **14.1 UN-Number**

· **ADR, IMDG, IATA**

UN2922

· **14.2 UN proper shipping name**

· **ADR**

2922 CORROSIVE LIQUID, TOXIC, N.O.S. (2,2'-dimethyl-4,4'-methylenebis(cyclohexylamine), N,N,N'-Dimethylaminopropyl hexahydrotriazin),

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· · IMDG · IATA	ENVIRONMENTALLY HAZARDOUS CORROSIVE LIQUID, TOXIC, N.O.S. (2,2'-dimethyl-4,4'methylenebis(cyclohexylamine), N,N,N'-Dimethylaminopropyl hexahydrotriazin), MARINE POLLUTANT CORROSIVE LIQUID, TOXIC, N.O.S. (2,2'-dimethyl-4,4'methylenebis(cyclohexylamine), N,N,N'-Dimethylaminopropyl hexahydrotriazin)
· 14.3 Transport hazard class(es) · ADR · Class · Label	 8 Corrosive substances. 6.1+8
· IMDG · Class · Label	 8 Corrosive substances. 8/6.1
· IATA · Class · Label	 6.1 Toxic substances. 8 (6.1)
· 14.4 Packing group · ADR, IMDG, IATA	 II
· 14.5 Environmental hazards: · Marine pollutant: · Special marking (ADR):	 Product contains environmentally hazardous substances: Bis(isopropyl)naphthalin Yes Symbol (fish and tree) Symbol (fish and tree)
· 14.6 Special precautions for user · Danger code (Kemler): · EMS Number: · Segregation groups · Stowage Category · Stowage Code	 Warning: Corrosive substances. 86 F-A, S-B Alkalis B SW2 Clear of living quarters.
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	 Not applicable.
· Transport/Additional information: · ADR · Limited quantities (LQ) · Excepted quantities (EQ) · Transport category · Tunnel restriction code	 1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml 2 E
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	 1 L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

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- | | |
|---|--|
| <ul style="list-style-type: none"> · UN "Model Regulation": | UN 2922 CORROSIVE LIQUID, TOXIC, N.O.S.
(2 , 2 ' - D I M E T H Y L -
4,4'METHYLENEBIS(CYCLOHEXYLAMINE),
N,N,N'-DIMETHYLAMINOPROPYL
HEXAHYDROTRIAZIN), 6.1 (8), II,
ENVIRONMENTALLY HAZARDOUS |
|---|--|

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 50 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3
- **National regulations:**
- **VOC (EC)** 0.00 %

Class	Share in %
I	24.4

- **Waterhazard class:** Water hazard class 3 (Self-assessment): extremely hazardous for water.
- **Other regulations, limitations and prohibitive regulations**

- **Substances of very high concern (SVHC) according to REACH, Article 57**

No substances of very high concern contained resp. below the limit.

- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not 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**

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H311 Toxic in contact with skin.

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.

H330 Fatal if inhaled.

H373 May cause damage to organs through prolonged or repeated exposure.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

- **Department issuing SDS:** Product Safety

- **Contact:**

Abteilung Produktsicherheit Tel.0049-9861/7007-21, -49, -55

Fax. -75

- **Abbreviations and acronyms:**

Acute Tox. 4: Acute toxicity - oral – Category 4

Acute Tox. 3: Acute toxicity - dermal – Category 3

Acute Tox. 1: Acute toxicity - inhalation – Category 1

Acute Tox. 2: Acute toxicity - inhalation – Category 2

Skin Corr. 1A: Skin corrosion/irritation – Category 1A

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

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



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Skin Sens. 1: Skin sensitisation – Category 1

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Asp. Tox. 1: Aspiration 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.**

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