

## Safety Data Sheet

According to Regulation EC No. 1907/2006, as amended by UK REACH Regulations SI 2019/758

### GP Quick Repair / Hardener

Date of issue/Date of revision: 21.02.2022

en / EU - Version 1.1

#### 1. Identification of the substance/preparation and of the company/undertaking

##### 1.1 Identification of the substance or preparation:

GP Quick Repair

##### 1.2 Use of the substance/preparation:

Hardener

##### 1.3 Company/undertaking identification

Company name: Gößl + Pfaff GmbH  
 Street: Münchener Str. 13  
 Place: 85123 Karlskron/Brautlach  
 Telephone: +49 (0) 8450 / 932-0  
 Fax.: +49 (0) 8450 / 932-13  
 Contact person: Management: Mr. Gößl, Mr. Pfaff  
 E-Mail: info@goessl-pfaff.de  
 Internet: [www.goessl-pfaff.de](http://www.goessl-pfaff.de)  
 Responsible Department: Management

##### 1.4 Emergency telephone

**Emergency CONTACT (24-Hour-Number): GBK GmbH +49 (0) 6132-84463**

#### 2. Hazards identification

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

###### Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 2	H330: Fatal if inhaled.
Acute toxicity, Category 4	H312: Harmful in contact with skin.
Skin corrosion, Sub-Category 1B	H314: Causes severe skin burns and eye damage.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Reproductive toxicity, Category 1B	H360F: May damage fertility.
Specific target organ toxicity - single exposure, Category 3, Respiratory system	H335: May cause respiratory irritation.
Chronic aquatic toxicity, Category 2	H411: Toxic to aquatic life with long lasting effects.

##### 2.2 Label elements

###### Labelling (REGULATION (EC) No 1272/2008)

###### Hazard pictograms:



**Signal word:** Danger

###### Hazard statements:

H312 Harmful in contact with skin.  
 H314 Causes severe skin burns and eye damage.  
 H317 May cause an allergic skin reaction.  
 H330 Fatal if inhaled.  
 H335 May cause respiratory irritation.  
 H360F May damage fertility.  
 H411 Toxic to aquatic life with long lasting effects.

###### Precautionary statements:

###### Prevention:

P201 Obtain special instructions before use.  
 P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

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**Response:**

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.  
 P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.  
 P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.  
 P308 + P313 IF exposed or concerned: Get medical advice/ attention.  
 P391 Collect spillage.

**Storage:**

P403 + P233 Store in a well-ventilated place.  
 Keep container tightly closed.

**Hazardous components which must be listed on the label:**

2,2'-Iminodi(ethylamine)  
 4,4'-Isopropylidenediphenol

**Additional Labelling:**

Restricted to professional users.

**2.3 Other hazards**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: This substance/mixture contains components considered to have endocrine disrupting properties for environment, according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

Toxicological information: This substance/mixture contains components considered to have endocrine disrupting properties affecting human health, according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

### 3. Composition/information on ingredients

**3.2 Mixtures****Hazardous components**

Chemical name	CAS-No. EC-No. Index-No. Registration No.	Classification	Concentration (% w/w)
2,2'-Iminodi(ethylamine)	111-40-0 203-865-4 612-058-00-X	Acute Tox. 4; H302; Acute Tox. 2; H330 Acute Tox. 4; H312; Skin Corr. 1B; H314 Eye Dam. 1; H318; Skin Sens. 1; H317; STOT SE 3; H335 (Respiratory system)	>= 50 – < 70
4,4'-Isopropylidenediphenol	80-05-7 201-245-8 604-030-00-0	Eye Dam. 1; H318 Skin Sens. 1; H317 Repr. 1B; H360F STOT SE 3; H335 (Respiratory system) Aquatic Chronic 2; H411	>= 30 – < 50

For explanation of abbreviations see section 16.

### 4. First aid measures

**4.1 Description of first aid measures****General advice:**

Move out of dangerous area.  
 Consult a physician.  
 Show this safety data sheet to the doctor in attendance.  
 Symptoms of poisoning may appear several hours later.  
 Treat symptomatically.  
 Get medical attention if symptoms occur.

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#### **If inhaled:**

Call a physician or poison control centre immediately.

If inhaled, remove to fresh air.

Get medical attention if symptoms occur.

#### **In case of skin contact:**

Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.

Take victim immediately to hospital.

If on skin, rinse well with water.

If on clothes, remove clothes.

#### **In case of eye contact:**

Small amounts splashed into eyes can cause irreversible tissue damage and blindness.

In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Continue rinsing eyes during transport to hospital.

Remove contact lenses.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

#### **If swallowed:**

Clean mouth with water and drink afterwards plenty of water.

Keep respiratory tract clear.

Do NOT induce vomiting.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

Take victim immediately to hospital.

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

None known.

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

Treatment: Treat symptomatically.

## **5. Fire-fighting measures**

### **5.1 Extinguishing media**

#### **Suitable extinguishing media:**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### **Unsuitable extinguishing media:**

High volume water jet

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

#### **Specific hazards during firefighting:**

Do not allow run-off from fire fighting to enter drains or water courses.

#### **Hazardous combustion products:**

Carbon monoxide

Carbon dioxide (CO<sub>2</sub>)

Nitrogen oxides (NO<sub>x</sub>)

### **5.3 Advice for firefighters**

#### **Special protective equipment for firefighters:**

Wear self-contained breathing apparatus for firefighting if necessary.

#### **Further information:**

Collect contaminated fire extinguishing water separately.

This must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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#### 6. Accidental release measures

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

###### Personal precautions:

Use personal protective equipment.  
Ensure adequate ventilation.  
Evacuate personnel to safe areas.  
Refer to protective measures listed in sections 7 and 8.

##### 6.2 Environmental precautions

Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

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

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Keep in suitable, closed containers for disposal.

##### 6.4 Reference to other sections

See Section 1 for emergency contact information.  
For disposal considerations see section 13.  
For personal protection see section 8.

#### 7. Handling and storage

##### 7.1 Precautions for safe handling

###### Advice on safe handling:

Avoid formation of aerosol.  
Do not breathe vapours/dust.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Provide sufficient air exchange and/or exhaust in work rooms.  
To avoid spills during handling keep bottle on a metal tray.  
Dispose of rinse water in accordance with local and national regulations.  
Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

###### Advice on protection against fire and explosion:

Normal measures for preventive fire protection.

###### Hygiene measures:

Avoid contact with skin, eyes and clothing.  
When using do not eat or drink.  
When using do not smoke.  
Wash hands before breaks and immediately after handling the product.

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

###### Requirements for storage areas and containers:

Prevent unauthorized access.  
Keep container tightly closed in a dry and well-ventilated place.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Observe label precautions.  
Keep in properly labelled containers.

###### Advice on common storage:

For incompatible materials please refer to Section 10 of this SDS.

**Recommended storage temperature:** 2–40 °C

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#### Further information on storage stability:

Stable under normal conditions.

#### 7.3 Specific end use(s)

##### Specific use(s):

No data available

### 8. Exposure controls/personal protection

#### 8.1 Control parameters

##### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
2,2'- Iminodi(ethylamine)	111-40-0	TWA	1 ppm 4.3 mg/m <sup>3</sup>	GB EH40
Further information	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
4,4-Isopropylidenediphenol	80-05-7	TWA (inhalable fraction)	2 mg/m <sup>3</sup>	2017/164/EU
Further information	Indicative			
		TWA	2 mg/m <sup>3</sup>	GB EH40

##### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure route	Potential health effects	Value
2,2'- Iminodi(ethylamine)	Workers	Inhalation	Long-term systemic effects	15,4 mg/m <sup>3</sup>
	Workers	Inhalation	Acute systemic effects	92,1 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term local effects	0,87 mg/m <sup>3</sup>
	Workers	Inhalation	Acute local effects	2,6 mg/m <sup>3</sup>
	Workers	Dermal	Long-term systemic effects	11,4 mg/kg bw/day
	Workers	Dermal	Long-term local effects	1,1 mg/cm <sup>2</sup>
	Consumers	Inhalation	Long-term systemic effects	4,6 mg/m <sup>3</sup>
	Consumers	Inhalation	Acute systemic effects	27,5 mg/m <sup>3</sup>
	Consumers	Dermal	Long-term systemic effects	4,88 mg/kg bw/day
	Consumers	Dermal	Acute systemic effects	4,88 mg/kg bw/day

##### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
2,2'-Iminodi(ethylamine)	Fresh water	0,56 mg/l
	Freshwater - intermittent	0,32 mg/l
	Fresh water sediment	1072 mg/kg dry weight (d.w.)
	Marine water	0,056 mg/l
	Marine sediment	107,2 mg/kg dry weight (d.w.)
	Sewage treatment plant	6 mg/l
	Soil	7,97 mg/kg dry weight (d.w.)

#### 8.2 Exposure controls

##### Personal protective equipment

##### Eye protection:

Eye wash bottle with pure water

Tightly fitting safety goggles

Wear face-shield and protective suit for abnormal processing problems.

##### Hand protection:

Material: Ethyl Vinyl Alcohol Lamine (EVAL)

Break through time: &gt; 8 h

##### Skin and body protection:

Impervious clothing

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

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**Respiratory protection:**

Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

**Filter type:** Organic vapour type (A)

## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance:	liquid
Colour:	clear, yellow
Odour:	amine-like
Odour Threshold:	No data is available on the product itself.
pH:	No data is available on the product itself.
Melting point/freezing point:	Not data available
Boiling point:	> 200 °C
Flash point:	102 °C
	Method: Pensky-Martens closed cup
Flammability (solid, gas):	No data is available on the product itself.
Burning rate:	No data is available on the product itself.
Upper explosion limit / Upper flammability limit:	No data is available on the product itself.
Lower explosion limit / Lower flammability limit:	No data is available on the product itself.
Vapour pressure:	No data is available on the product itself.
Relative vapour density:	No data is available on the product itself.
Relative density:	No data is available on the product itself.
Density:	1–1,05 g/cm <sup>3</sup> (25 °C)
<b>Solubility(ies)</b>	
Water solubility:	completely miscible
Solubility in other solvents:	No data is available on the product itself.
Partition coefficient: n- octanol/water:	No data is available on the product itself.
Auto-ignition temperature:	No data is available on the product itself.
Decomposition temperature:	> 200 °C
<b>Viscosity</b>	
Viscosity, dynamic:	190–250 mPa.s (25 °C)

### 9.2 Other information

Explosive properties:	No data is available on the product itself.
Oxidizing properties:	No data is available on the product itself.
Burning rate:	No data is available on the product itself.
Evaporation rate:	No data is available on the product itself.
Molecular weight:	No data available

## 10. Stability and reactivity

### 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

#### Hazardous reactions:

No hazards to be specially mentioned.

### 10.4 Conditions to avoid

None known.

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#### 10.5 Incompatible materials

##### Materials to avoid:

None known.

#### 10.6 Hazardous decomposition products

Carbon monoxide

Carbon dioxide

Nitrogen oxides (NO<sub>x</sub>)

### 11. Toxicological information

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

##### Acute toxicity

Acute oral toxicity - Product:

Acute toxicity estimate : &gt; 2,000 mg/kg

Method: Calculation method

Acute inhalation toxicity- Product:

Acute toxicity estimate: 0.3053 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: Calculation method

Acute dermal toxicity - Product:

Acute toxicity estimate: 1 725 mg/kg

Method: Calculation method

Acute toxicity (other routes of administration):

No data available

##### Skin corrosion/irritation

###### Components:

2,2'-Iminodi(ethylamine):

Species: Rabbit

Assessment: Causes burns.

Result: Causes burns.

4,4'-Isopropylidenediphenol:

Species: Rabbit

Method: OECD Test Guideline 404

Result: No skin irritation

##### Serious eye damage/eye irritation

###### Components:

2,2'-Iminodi(ethylamine):

Species: Rabbit

Assessment: Corrosive

Result: Corrosive

4,4'-Isopropylidenediphenol:

Species: Rabbit

Method: OECD Test Guideline 405

Result: Irreversible effects on the eye

##### Respiratory or skin sensitisation

###### Components:

2,2'-Iminodi(ethylamine):

Exposure routes: Skin

Species: Mouse

Method: OECD Test Guideline 429

Result: May cause sensitisation by skin contact.

Remarks: Causes sensitisation.



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Exposure routes: Respiratory Tract  
 Species: Mouse  
 Result: Does not cause respiratory sensitisation.

4,4'-Isopropylidenediphenol:  
 Exposure routes: Skin  
 Species: Mouse  
 Method: OECD Test Guideline 429  
 Result: Does not cause skin sensitisation.  
 Exposure routes: Skin  
 Species: Humans  
 Assessment: May cause sensitisation by skin contact.  
 Result: Causes sensitisation.

Assessment: No data available

#### Germ cell mutagenicity

##### Components:

4,4'-Isopropylidenediphenol:  
 Genotoxicity in vitro:  
 Metabolic activation: with and without metabolic activation  
 Result: negative

##### Components:

2,2'-Iminodi(ethylamine):  
 Genotoxicity in vivo:  
 Cell type: Somatic  
 Application Route: Oral  
 Dose: 85 - 850 mg/kg  
 Method: OECD Test Guideline 474  
 Result: negative

Application Route: Oral  
 Result: negative

4,4'-Isopropylidenediphenol:  
 Genotoxicity in vivo:  
 Method: OECD Test Guideline 474  
 Result: negative

Germ cell mutagenicity-Assessment:  
 No data available

#### Carcinogenicity

##### Components:

2,2'-Iminodi(ethylamine):  
 Species: Mouse, male  
 Application Route: Dermal  
 Dose: 56.3 mg/kg  
 Frequency of Treatment: 3 daily  
 Result: negative

4,4'-Isopropylidenediphenol:  
 Species: Rat, male and female  
 Application Route: Oral  
 Exposure time: 103 weeks  
 Frequency of Treatment: 7 daily  
 Result: negative

Carcinogenicity-Assessment:  
 No data available



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**Reproductive toxicity****Components:**

2,2'-Iminodi(ethylamine):

Effects on fertility:

Species: Rat, male and female

Application Route: Oral

General Toxicity - Parent:

No observed adverse effect level: 30 mg/kg wet weight

Method: OECD Test Guideline 421

4,4'-Isopropylidenediphenol:

Species: Rat, male and female

Application Route: Oral

Method: OECD Test Guideline 416

Result: Embryotoxic effects and adverse effects on the offspring were detected.

**Components:**

2,2'-Iminodi(ethylamine):

Effects on foetal development:

Species: Rat

Application Route: Oral

General Toxicity Maternal:

No observed adverse effect level: 100 mg/kg body weight

Method: OECD Test Guideline 421

Result: No adverse effects

4,4'-Isopropylidenediphenol:

Species: Rat, female

Application Route: Oral

General Toxicity Maternal:

No observed adverse effect level: &lt; 160 mg/kg body weight

Method: OECD Test Guideline 416

Result: No teratogenic effects

**Components:**

4,4'-Isopropylidenediphenol:

Reproductive toxicity – Assessment:

Clear evidence of adverse effects on sexual function and fertility, based on animal experiments.

**STOT - single exposure****Components:**

2,2'-Iminodi(ethylamine):

Target Organs: Respiratory Tract

Assessment: May cause respiratory irritation.

4,4'-Isopropylidenediphenol:

Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

**STOT - repeated exposure**

No data available

**Repeated dose toxicity:****Components:**

2,2'-Iminodi(ethylamine):

Species: Rat, male and female

NOEC: 70 - 80

Application Route: Ingestion

Test atmosphere: vapour

Exposure time: 360 h Number of exposures: 7 d

Method: Subchronic toxicity

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Species: Rat, male and female

NOAEL: 114

Application Route: Skin contact

Exposure time: 9,600 h Number of exposures: 6 d

Method: Chronic toxicity

4,4'-Isopropylidenediphenol:

Species: Dog, male and female

NOEC: 75 mg/kg, 10

Application Route: Ingestion

Test atmosphere: dust/mist

Exposure time: 2,160 h Number of exposures: 7 d

Method: Subchronic toxicity

Species: Rat, male and female

LOAEL: 600 mg/kg

Application Route: Ingestion

Exposure time: 672 h Number of exposures: 7 d

Method: Subchronic toxicity

Repeated dose toxicity – Assessment:

No data available

**Aspiration toxicity**

No data available

**11.2 Information on other hazards****Endocrine disrupting properties****Product:**

Assessment:

This substance/mixture contains components considered to have endocrine disrupting properties affecting human health, according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

**Experience with human exposure**

General Information: No data available

Inhalation: No data available

Skin contact: No data available

Eye contact: No data available

Ingestion: No data available

**Toxicology, Metabolism, Distribution**

No data available

**Neurological effects**

No data available

**Further information**

Ingestion: No data available

**12. Ecological information****12.1 Toxicity****Components:**

2,2'-Iminodi(ethylamine):

Toxicity to fish:

LC50: 430 mg/l

Exposure time: 96 h

Test Type: semi-static test

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Test substance: Fresh water  
 Method: Directive 67/548/EEC, Annex V, C.1.

Toxicity to daphnia and other aquatic invertebrates:  
 EC50 (*Daphnia magna* (Water flea)): 64,6 mg/l  
 Exposure time: 48 h  
 Test Type: static test

Test substance: Fresh water  
 Method: Regulation (EC) No. 440/2008, Annex, C.2

EC50 (*Daphnia magna* (Water flea)): 16 mg/l  
 Exposure time: 48 h  
 Test Type: static test

Test substance: Fresh water  
 Method: DIN 38412

Toxicity to algae/aquatic plants:  
 EbC50 (*Selenastrum capricornutum* (green algae)): 1 164 mg/l  
 Exposure time: 72 h  
 Test Type: static test

Test substance: Fresh water  
 Method: OECD Test Guideline 201

Toxicity to fish (Chronic toxicity):  
 NOEC: 10 mg/l  
 Exposure time: 28 d  
 Test Type: semi-static test

Test substance: Fresh water  
 Method: OECD Test Guideline 210

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity):  
 NOEC: 5,6 mg/l  
 Exposure time: 21 d  
 Species: *Daphnia magna* (Water flea)  
 Test Type: semi-static test

Test substance: Fresh water  
 Method: Directive 67/548/EEC, Annex V, C.20

Toxicity to soil dwelling organisms:  
 EC50: > 1 000 mg/kg  
 Exposure time: 56 d  
 Species: *Eisenia fetida* (earthworms)  
 Method: OECD Test Guideline 222

Ecotoxicology Assessment  
 Acute aquatic toxicity:  
 This product has no known ecotoxicological effects.

4,4'-Isopropylidenediphenol:  
 Toxicity to fish:  
 LC50 (*Oncorhynchus mykiss* (rainbow trout)): 7,5 mg/l  
 Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates:  
 EC50: 3,9 - 10,2 mg/l  
 Exposure time: 48 h  
 (*Ceriodaphnia dubia* (Water flea)):

Toxicity to algae/aquatic plants:  
 EC50 (*Selenastrum capricornutum* (green algae)): 2,5 - 3,1 mg/l  
 Exposure time: 96 h

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Toxicity to fish (Chronic toxicity):

NOEC: 0,016 mg/l

Exposure time: 444 d

Species: Pimephales promelas (fathead minnow)

Test Type: flow-through test

Test substance: Fresh water

Method: EPA OPPTS 850.1500

Remarks: Toxic to aquatic organisms.

Ecotoxicology Assessment

Chronic aquatic toxicity:

Toxic to aquatic life with long lasting effects.

**12.2 Persistence and degradability****Components:**

2,2'-Iminodi(ethylamine):

Biodegradability:

Inoculum: activated sludge

Result: Readily biodegradable.

Biodegradation: 87 %

Exposure time: 21 d

Method: OECD Test Guideline 301D

Photodegradation:

Test Type: Air

Rate constant: 500000

Degradation (direct photolysis): 50 %

4,4'-Isopropylidenediphenol:

Biodegradability:

Result: Not readily biodegradable.

Biodegradation: 1 - 2 %

Exposure time: 28 d

**12.3 Bioaccumulative potential****Components:**

2,2'-Iminodi(ethylamine):

Bioaccumulation:

Species: Cyprinus carpio (Carp)

Exposure time: 42 d

Bioconcentration factor (BCF): 0,3 - 6,3

Test substance: Fresh water

Method: flow-through test

Remarks: Bioaccumulation is unlikely.

Partition coefficient:

n- octanol/water:

log Pow: -1,58 (20 °C)

pH: 7

**12.4 Mobility in soil****Components:**

2,2'-Iminodi(ethylamine):

Distribution among environmental compartments:

Koc: 19111

**12.5 Results of PBT and vPvB assessment****Product:**

Assessment:

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

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#### 12.6 Endocrine disrupting properties

**Product:**
**Assessment:**

This substance/mixture contains components considered to have endocrine disrupting properties for environment, according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

**Components:**

4,4'-Isopropylidenediphenol:

**Assessment:**

The substance is considered to have endocrine disrupting properties according to REACH Article 57(f) for the environment.

#### 12.7 Other adverse effects

**Product:**
**Additional ecological information:**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Toxic to aquatic life with long lasting effects.

### 13. Disposal considerations

#### 13.1 Waste treatment methods

**Product:**

The product should not be allowed to enter drains, water courses or the soil.

Do not contaminate ponds, waterways or ditches with chemical or used container.

Send to a licensed waste management company.

Dispose of as hazardous waste in compliance with local and national regulations.

Dispose of contents/ container to an approved waste disposal plant.

**Contaminated packaging:**

Empty remaining contents.

Dispose of as unused product.

Do not re-use empty containers.

### 14. Transport information

#### 14.1 UN number or ID number

ADR: UN 2079

RID: UN 2079

IMDG: UN 2079

IATA: UN 2079

#### 14.2 UN proper shipping name

ADR: DIETHYLENETRIAMINE, SOLUTION

RID: DIETHYLENETRIAMINE, SOLUTION

IMDG: DIETHYLENETRIAMINE, SOLUTION

(4,4'-Isopropylidenediphenol)

IATA: Diethylenetriamine, SOLUTION

#### 14.3 Transport hazard class(es)

ADR: 8

RID: 8

IMDG: 8

IATA: 8

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#### 14.4 Packing group

##### ADR

Packing group:	II
Classification Code:	C7
Hazard Identification Number:	80
Labels:	8
Tunnel restriction code:	(E)

##### RID

Packing group:	II
Classification Code:	C7
Hazard Identification Number:	80
Labels:	8

##### IMDG

Packing group:	II
Labels:	8
EmS Code:	F-A, S-B

##### IATA (Cargo)

Packing instruction (cargo aircraft):	855
Packing instruction (LQ):	Y840
Packing group:	II
Labels:	Corrosive

##### IATA (Passenger)

Packing instruction (passenger aircraft):	851
Packing instruction (LQ):	Y840
Packing group:	II
Labels:	Corrosive

#### 14.5 Environmental hazards

##### ADR

Environmentally hazardous:	Yes
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##### RID

Environmentally hazardous:	Yes
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##### IMDG

Marine pollutant:	Yes
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#### 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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

Not applicable for product as supplied.

### 15. Regulatory information

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59): bisphenol A

REACH - List of substances subject to authorisation (Annex XIV): Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

H2 ACUTE TOXIC

E2 ENVIRONMENTAL HAZARDS

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#### Other regulations:

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

#### The components of this product are reported in the following inventories:

DSL: All components of this product are on the Canadian DSL

AICC: On the inventory, or in compliance with the inventory

NZIoC: On the inventory, or in compliance with the inventory

ENCS: On the inventory, or in compliance with the inventory

KECI: On the inventory, or in compliance with the inventory

PICCS: On the inventory, or in compliance with the inventory

IECSC: On the inventory, or in compliance with the inventory

TCSI: On the inventory, or in compliance with the inventory

TSCA: All substances listed as active on the TSCA inventory

#### Inventories

AICS (Australia), AICC (Australia), DSL (Canada), IECSC (China), ENCS (Japan), KECI (Korea), NZIOIC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (United States of America (USA))

#### 15.2 Chemical safety assessment

Chemical Safety Assessments for all substances in this product are either Complete or not applicable.

### 16. Other information

#### Full text of H-Statements

H302: Harmful if swallowed.  
 H312: Harmful in contact with skin.  
 H314: Causes severe skin burns and eye damage.  
 H317: May cause an allergic skin reaction.  
 H318: Causes serious eye damage.  
 H330: Fatal if inhaled.  
 H335: May cause respiratory irritation.  
 H360F: May damage fertility.  
 H411: Toxic to aquatic life with long lasting effects.

#### Full text of other abbreviations

Acute Tox.: Acute toxicity  
 Aquatic Chronic: Chronic aquatic toxicity  
 Eye Dam.: Serious eye damage  
 Repr.: Reproductive toxicity  
 Skin Corr.: Skin corrosion  
 Skin Sens.: Skin sensitisation  
 STOT SE: Specific target organ toxicity - single exposure  
 2017/164/EU: Europe. Commission Directive 2017/164/EU establishing a fourth list of indicative occupational exposure limit values  
 GB EH40: UK. EH40 WEL - Workplace Exposure Limits  
 2017/164/EU / TWA: Limit Value – eight hours  
 GB EH40 / TWA: Long-term exposure limit (8-hour TWA reference period)

#### Further information

##### Classification of the mixture:

Acute Tox. 2	H330
Acute Tox. 4	H312
Skin Corr. 1B	H314
Eye Dam. 1	H318
Skin Sens. 1	H317
Repr. 1B	H360F
STOT SE 3	H335
Aquatic Chronic 2	H411

##### Classification procedure:

Calculation method
Calculation method
Calculation method
Calculation method
Calculation method
Calculation method
Calculation method
Calculation method



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The information of this MSDS is based on the present state of our knowledge and meets the requirements of EU and national laws. The user's working conditions however, are beyond our knowledge and control. The product is not to be used for purposes other than those specified under Section 1 without a written permission. It remains the responsibility of the user to ensure that the necessary steps are taken to meet the laws and regulations. Handling of the product may only be done by people above 18 years of age, who are satisfactorily informed of how to do the work, the hazardous properties and necessary safety precautions. The information given in this MSDS is to describe the product only in terms of health and safety requirements and should not, therefore, be construed as guaranteeing specific properties.