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**Version:** 2.0 / EN

**C 6**

## **1. Identification of the substance/mixture and of the company / undertaking**

### **1.1 Product identifier**

substance name / trade name: Polishing additive C 6

### **1.2 Relevant identified uses of the substance or mixture and uses advised against**

Relevant identified uses: Industrial uses  
Polishing agent

### **1.3 Details of the Supplier of the safety data sheet**

#### **Manufacturer / Supplier**

Dr.-Ing. Manfred Dreher GmbH & Co. KG

#### **Street/PO box**

Hauptstraße 72

#### **City**

D-75331 Engelsbrand

#### **Telefon / Telefax / E-Mail**

+49 (0)7082-929.0 / +49 (0)7082-929.30 / E-Mail: info@dreher-finish.com

### **1.4 Emergency Telephone Number**

+49 (0)7082-929.0 Only available during office hours!

## **2. Hazards identification**

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

#### **Classification according to Regulation (EC) No 1272/2008 [CLP]:**

Serious eye damage/eye irritation Category 2 H319

Chronic aquatic toxicity Category 3 H412

(For full text of abbreviations: see SECTION 16.)

#### **The main harmful physico-chemical effects, effects on human health and the environment:**

Spillage and fire-fighting water can lead to pollution of the waters.

### **2.2 Label elements**

#### **Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

**pictograms :**  
GHS07



**signal word : Warning**

#### **Hazard statements:**

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

#### **Precautionary statements:**

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

**Safety data sheet** according to Regulation (EC) No 1907/2006  
(changed by Regulation (EU) No 453/2010)



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P501      Dispose of contents/container to industrial combustion plant.

### 2.3 Other hazards

Results of PRT- and vPvB assessment  
The mixture does not contain any substances that are assessed to be a PBT or a vPvB.

## 3. Composition/information on ingredients

### 3.1 Substance

Not relevant (mixture)

### 3.2 Mixtures

Substance name: Sodium carbonate

EC No.: 207-838-8 CAS No.: 497-19-8 Index-No.: REACH-registration no.: 01-2119485498-19-xxxx

Proportion : 5-<10 %

Classification according to Regulation (EC) No. 1272/2008:

Eye Irrit.      2      H319

Substance name: Diethanolamin

EC No.: 203-868-0 CAS No.: 111-42-2 Index-No.: REACH-registration no.:

Proportion : 1-<5 %

Classification according to Regulation (EC) No. 1272/2008:

Acute Tox.      4      H302

Skin Irrit.      2      H315

Eye Dam.      1      H318

STOT RE      2      H373

Aquatic Chronic      2      H411

Substance name: Sodium nitrite

EC No.: 231-555-9 CAS No.: 7632-00-0 Index-No.: REACH-registration no.:

Proportion : <1 %

Classification according to Regulation (EC) No. 1272/2008:

Ox. Sol.      3      H272

Acute Tox.      3      H301

Aquatic Acute      1      H400

(For full text of abbreviations: see SECTION 16.)

## 4. First aid measures

### 4.1 Description of first aid measures

#### General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

#### Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

#### Following skin contact

Rinse skin with water/shower.

#### Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

#### Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

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

Symptoms and effects are not known to date.

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

none

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**5. Firefighting measures**

**5.1 Extinguishing media**

Suitable: Product itself does not burn.

Co-ordinate firefighting measures to the fire surroundings.

Unsuitable: -

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

this information is not available

**5.3 Advice for firefighters**

Co-ordinate firefighting measures to the fire surroundings.

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**6. Accidental release measures**

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

Remove persons to safety.

**For emergency responders**

Wear breathing apparatus if exposed to vapours/dusts/aerosols/gas.

**6.2 Environmental precautions**

Keep away from drains, surface and ground water.

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

**Advices on how to contain a spill**

Take up mechanically.

**Advices on how to clean up a spill**

Take up mechanically.

**Other information relating to spills and releases**

Place in appropriate containers for disposal. Ventilate affected area.

**6.4 Reference to other sections**

Protective measures observe under 7, 8 and 13.

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**7. Handling and storage**

**7.1 Precautions for safe handling**

**Recommendations**

**Measures to prevent fire as well as aerosol and dust generation**

Use local and general ventilation. Use only in well-ventilated areas.

**Advice on general occupational hygiene**

Wash hands after use. Do not eat, drink and smoke in work areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

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

**Control of the effects**

Protect against external exposure, such as frost.

**Ventilation requirements**

Use local and general ventilation.

**Requirements for storage rooms and vessels**

Store in original packing material

**Storage class (LGK):** 12 Non combustible liquid

**7.3 Specific end use(s)**

See section 16 for a general overview.

**8. Exposure controls / personal protection**

**8.1 Control parameters**

These information are not available.

Relevant DNELs of components of the mixture						
Name of substance	CAS No.	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Diethanolamin	111-42-2	DNEL	73,44 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic – systemic effects
Diethanolamin	111-42-2	DNEL	4,16 mg/kg KG/Tag	human, dermal	worker (industry)	chronic – systemic effects
Diethanolamin	111-42-2	DNEL	31,2 µg/cm <sup>2</sup>	human, dermal	worker (industry)	chronic – local effects

Relevant PNECs of components of the mixture						
Name of substance	CAS No.	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Diethanolamin	111-42-2	PNEC	0,007 mg/l	aquatic organisms	freshwater	short-term (single instance)
Diethanolamin	111-42-2	PNEC	0,001 mg/l	aquatic organisms	marine water	short-term (single instance)
Diethanolamin	111-42-2	PNEC	830 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Diethanolamin	111-42-2	PNEC	1,227 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Diethanolamin	111-42-2	PNEC	0,123 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Diethanolamin	111-42-2	PNEC	0,241 mg/kg	terrestrial organisms	soil	short-term (single instance)

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## 8.2 Exposure controls

### Appropriate engineering controls

General ventilation.

### Individual protection measures - Personal protective equipment

#### Eye / Face protection

Wear eye/face protection.

#### Skin protection

##### Hand protection

Protective gloves (EN 374)

##### Suitable material

FKM (fluororubber). NBR (nitrile rubber).

**Breakthrough time (maximum wearing time) >480 min**

**Thickness of the glove material >0,4 mm**

#### Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling

#### Respiratory protection

Not required

#### Environmental exposure controls

Use appropriate container to avoid environmental contamination.

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## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance	Viscous liquid
- Form:	liquid
- Colour :	white
Odor :	odourless
PH- Value :	not applicable
Melting point :	not determined
Initial boiling point and boiling range :	not applicable
Flash point :	not applicable
Flammability :	not relevant
Density :	not determined
Hardness :	this information is not available
Solubility(ies) :	not determined
Refractive index :	not determined
Vapour pressure :	not applicable

### 9.2 Other information

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## 10. Stability and reactivity

### 10.1 Reactivity

No known hazardous reactions.

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### 10.2 Chemical stability

See below "Conditions to avoid".

### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

### 10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

### 10.5 Incompatible materials

Oxidizers

### 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known.

## 11. Toxicological information

### 11.1 Information on toxicological effects

Test data are not available for the complete mixture.

#### Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### Classification according to GHS (1272/2008/EC, CLP)

##### Acute toxicity

Shall not be classified as acutely toxic.

Acute toxicity estimate (ATE) of components of the mixture			
Name of substance	CAS No.	Exposure route	ATE
Sodium nitrite	7632-00-0	oral	100 mg/kg

##### skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

##### Serious eye damage/eye irritation

Causes serious eye irritation.

##### Respiratory or skin sensitization

Shall not be classified as a respiratory or skin sensitizer.

##### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

##### Carcinogenicity

Shall not be classified as carcinogenic.

##### Reproductive toxicity

Shall not be classified as a reproductive toxicant.

##### Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

##### Specific target organ toxicity - repeated exposure

Causes damage to organs through prolonged or repeated exposure.

##### Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

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## **12. Ecological information**

### **12.1 Toxicity**

Acc. to 1272/2008/EC: Shall not be classified as hazardous to the aquatic environment.

### **12.2 Persistence and degradability**

Data are not available.

### **12.3 Bioaccumulative potential**

Data are not available.

Bioaccumulative potential of components of the mixture				
Name of substance	CAS No.	BCF	Log KOW	BOD5/COD
Diethanolamin	111-42-2		>6 (20°C)	

### **12.4 Mobility in soil**

Data are not available.

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

Data are not available.

### **12.6 Other adverse effects**

#### **Endocrine disrupting potential**

None of the ingredients are listed.

## **13. Disposal considerations**

### **13.1 Waste treatment methods**

#### **Sewage disposal-relevant information**

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

#### **Waste treatment of containers/packages**

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance it-self.

#### **Remarks**

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

## **14. Transport information**

### **14.1 UN-No.**

not subject to transport regulations

### **14.2 UN proper shipping name**

Not relevant

### **14.3 Transport hazard class(es)**

none

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**14.4 Packing group**

Not relevant

**14.5 Environmental hazards**

non-environmentally hazardous acc. to the dangerous goods regulations

**14.6 Special precautions for user**

There is no additional information.

**14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code**

The cargo is not intended to be carried in bulk.

**Information for each of the UN Model Regulations**

**Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)**

Not subject to ADR, RID and ADN.

**International Maritime Dangerous Goods Code (IMDG)**

Not subject to IMDG.

**International Civil Aviation Organization (ICAO-IATA/DGR)**

Not subject to ICAO-IATA.

**15. Regulatory information**

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

**Relevant provisions of the European Union (EU)**

**Restrictions according to REACH, Annex XVII**

Dangerous substances with restrictions (REACH, Annex XVII)					
Name of substance	Name acc. to inventory	CAS No.	Type of registration	Restriction	No.
C 6	this product meets the criteria for classification in accordance with Regulation No1272/2008/EC		1907/2006/EC annex XVII	R3	3
Sodium carbonate	this product meets the criteria for classification in accordance with Regulation No1272/2008/EC		1907/2006/EC annex XVII	R3	3
Diethanolamin	this product meets the criteria for classification in accordance with Regulation No1272/2008/EC		1907/2006/EC annex XVII	R3	3
Sodium nitrite	this product meets the criteria for classification in accordance with Regulation No1272/2008/EC		1907/2006/EC annex XVII	R3	3

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Legend

- R3
1. Shall not be used in:
    - ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
    - tricks and jokes,
    - games for one or more participants, or any article intended to be used as such, even with ornamental aspects,
  2. Articles not complying with paragraph 1 shall not be placed on the market.
  3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:
    - can be used as fuel in decorative oil lamps for supply to the general public, and,
    - present an aspiration hazard and are labelled with R65 or H304,
  4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN).
  5. Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of dangerous substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met:
    - (a) lamp oils, labelled with R65 or H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: 'Keep lamps filled with this liquid out of the reach of children'; and, by 1 December 2010, 'Just a sip of lamp oil – or even sucking the wick of lamps - may lead to life-threatening lung damage';
    - (b) grill lighter fluids, labelled with R65 or H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: 'Just a sip of grill lighter may lead to life threatening lung damage';
    - (c) lamp oils and grill lighters, labelled with R65 or H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 liter by 1 December 2010.
  6. No later than 1 June 2014, the Commission shall request the European Chemicals Agency to prepare a dossier, in accordance with Article 69 of the present Regulation with a view to ban, if appropriate, grill lighter fluids and fuel for decorative lamps, labelled R65 or H304, intended for supply to the general public.
  7. Natural or legal persons placing on the market for the first time lamp oils and grill lighter fluids, labelled with R65 or H304, shall by 1 December 2011, and annually thereafter, provide data on alternatives to lamp oils and grill lighter fluids labelled R65 or H304 to the competent authority in the Member State concerned. Member States shall make those data available to the Commission.

**List of substances subject to authorisation (REACH, Annex XIV)**

none of the ingredients are listed

**Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)**

none of the ingredients are listed

**Directive 2000/60/EC establishing a framework for Community action in the field of water policy (WFD)**

none of the ingredients are listed

**National regulations (Germany)**

**Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances hazardous to water) (AwSV)**

Wassergefährdungsklasse, WGK 2 hazardous to water  
(water hazard class)

**Technical instructions on air quality control (Germany)**

not assigned

**Storage of hazardous substances in non-stationary containers (TRGS 510) (Germany)**

Storage class(LGK) 12 Non combustible liquid

**15.2 Chemical Safety Assessment**

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

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**16. Other information**

**Abbreviations and acronyms**

Abbr.	Descriptions of used abbreviations
Acute Tox.	Acute toxicity
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
Aquatic Acute	Hazardous to the aquatic environment - acute hazard
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BOD	Biochemical Oxygen Demand
CAS	Chemical Abstracts Service ((service that maintains the most comprehensive list of chemical substances)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
COD	Chemical Oxygen Demand
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
EC No.	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Good Code
Index No.	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
LGK	Lagerklasse (storage class according to TRGS 510, Germany)
log KOW	n-Octanol/water
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
NLP	No-Longer Polymer
Ox. Sol.	Oxidizing solid
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals

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Abbr.	Descriptions of used abbreviations
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
SVHC	Substance of Very High Concern
TRGS	Technische Regeln für GefahrStoffe (technical rules for hazardous substances, Germany)
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative

**Key literature references and sources for data**

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

**Classification procedure**

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula)

**List of relevant phrases (code and full text as stated in chapter 2 and 3)**

Code	Text
H272	May intensify fire; oxidizer.
H301	Toxic if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

**Disclaimer**

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.