

### SECTION 1: Identification

#### 1.1. Identification

Trade name : Intensive Cleaner 500

#### 1.2. Recommended use and restrictions on use

No additional information available

#### 1.3. Supplier

Heidelberger Druckmaschinen AG  
Kurfürsten-Anlage 60  
Heidelberg, D-69115 - GERMANY  
T +49.6221.92-00 - F +49.6221.92-6999  
[Consumables-msds@heidelberg.com](mailto:Consumables-msds@heidelberg.com)

#### 1.4. Emergency telephone number

Emergency number : +32 3 778 03 37  
Only during office hours (8.30 am till 5 pm CET)

Country	Organization/Company	Address	Emergency number	Comment
USA	CHEMTREC		1-800-424-9300	For Hazardous Materials [or Dangerous Goods] Incident. Spill, Leak, Fire, Exposure, or Accident.

### SECTION 2: Hazard(s) identification

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

##### GHS US classification

Acute toxicity (oral)	H302	Harmful if swallowed
Category 4		
Skin corrosion/irritation	H314	Causes severe skin burns and eye damage
Category 1A		
Hazardous to the aquatic environment - Acute	H401	Toxic to aquatic life
Hazard Category 2		

Full text of H statements : see section 16

#### 2.2. GHS Label elements, including precautionary statements

##### GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) :

Danger

Hazard statements (GHS US) :

H302 - Harmful if swallowed  
H314 - Causes severe skin burns and eye damage  
H401 - Toxic to aquatic life

Precautionary statements (GHS US) :

P260 - Do not breathe vapors.  
P264 - Wash hands thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P273 - Avoid release to the environment.  
P280 - Wear eye protection, protective gloves.  
P301+P312 - If swallowed: Call a doctor if you feel unwell

#### 2.3. Other hazards which do not result in classification

No additional information available

#### 2.4. Unknown acute toxicity (GHS US)

Not applicable

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### SECTION 3: Composition/Information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	GHS US classification
2-butoxyethanol, ethylene glycol monobutyl ether, butyl cellosolve	(CAS-No.) 111-76-2	10 - 20	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319
2-aminoethanol, ethanolamine	(CAS-No.) 141-43-5	1 - 10	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 3, H402 Aquatic Chronic 3, H412
C9-11 alcohol ethoxylate	(CAS-No.) 68439-46-3	0 - 2	Eye Irrit. 2A, H319
Quaternary C12-14 alkyl methylamine ethoxylate methylchloride	(CAS-No.) 1554325-20-0	0 - 1	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 2, H401

Full text of hazard classes and H-statements : see section 16

### SECTION 4: First-aid measures

#### 4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician. Call a POISON CENTER or doctor/physician if you feel unwell.
- First-aid measures after skin contact : Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell. Immediately call a poison center or doctor/physician.

#### 4.2. Most important symptoms and effects (acute and delayed)

- Potential Adverse human health effects and symptoms : Harmful if swallowed.
- Symptoms/effects : Causes severe skin burns and eye damage.
- Symptoms/effects after inhalation : May cause respiratory irritation.
- Symptoms/effects after ingestion : Swallowing a small quantity of this material will result in serious health hazard.

#### 4.3. Immediate medical attention and special treatment, if necessary

No additional information available

### SECTION 5: Fire-fighting measures

#### 5.1. Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
- Unsuitable extinguishing media : Do not use a heavy water stream.

#### 5.2. Specific hazards arising from the chemical

No additional information available

#### 5.3. Special protective equipment and precautions for fire-fighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

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### SECTION 6: Accidental release measures

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

##### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

##### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

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

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Avoid breathing Vapors. Use only outdoors or in a well-ventilated area.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Wash contaminated clothing before reuse.

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

Technical measures : Comply with applicable regulations.

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Direct sunlight, Heat sources. Keep container tightly closed.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

<b>Intensive Cleaner 500</b>	
No additional information available	
<b>2-butoxyethanol, ethylene glycol monobutyl ether, butyl cellosolve (111-76-2)</b>	
<b>USA - ACGIH - Occupational Exposure Limits</b>	
Local name	2-Butoxyethanol (EGBE)
ACGIH TWA (ppm)	20 ppm
Remark (ACGIH)	TLV® Basis: Eye & URT irr. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans); BEI
Regulatory reference	ACGIH 2019
<b>USA - OSHA - Occupational Exposure Limits</b>	
Local name	2-Butoxyethanol
OSHA PEL (TWA) (mg/m³)	240 mg/m³
OSHA PEL (TWA) (ppm)	50 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
<b>C9-11 alcohol ethoxylate (68439-46-3)</b>	
No additional information available	
<b>Quaternary C12-14 alkyl methylamine ethoxylate methylchloride (1554325-20-0)</b>	
No additional information available	
<b>2-aminoethanol, ethanolamine (141-43-5)</b>	
<b>USA - ACGIH - Occupational Exposure Limits</b>	
Local name	Ethanolamine

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ACGIH TWA (ppm)	3 ppm
ACGIH STEL (ppm)	6 ppm
Remark (ACGIH)	TLV® Basis: Eye & skin irr
Regulatory reference	ACGIH 2019
<b>USA - OSHA - Occupational Exposure Limits</b>	
Local name	Ethanolamine
OSHA PEL (TWA) (mg/m³)	6 mg/m³
OSHA PEL (TWA) (ppm)	3 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1

### 8.2. Appropriate engineering controls

No additional information available

### 8.3. Individual protection measures/Personal protective equipment

#### Personal protective equipment:

Avoid all unnecessary exposure.

#### Hand protection:

Chemical resistant gloves (according to European standard EN 374 or equivalent). In case of prolonged immersion or frequent contact, use gloves made of the materials:

Type	Material	Permeation	Thickness (mm)	Permeation
	Nitrile rubber (NBR)	6 (> 480 minutes)		
	butyl rubber	6 (> 480 minutes)		
	Neoprene rubber (HNBR)	5 (> 240 minutes)		

#### Eye protection:

Chemical goggles or safety glasses

#### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

#### Personal protective equipment symbol(s):



#### Other information:

Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Color	: Colorless
Odor	: characteristic
Odor threshold	: No data available
pH	: ≈ 12
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 100 °C

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Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Non flammable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Specific gravity / density	: 0.99 g/cm <sup>3</sup>
Solubility	: Soluble in water.
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

### 9.2. Other information

VOC content	: 22 %
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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Thermal decomposition generates : Corrosive vapors.

### 10.2. Chemical stability

Not established.

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

Strong acids. Strong bases.

### 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide. Thermal decomposition generates : Corrosive vapors.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Harmful if swallowed.
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

ATE US (oral)	1293.094 mg/kg body weight
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#### 2-butoxyethanol, ethylene glycol monobutyl ether, butyl cellosolve (111-76-2)

LD50 oral rat	300 - 2000 mg/kg
LD50 dermal rat	>= 2000 mg/kg
LC50 inhalation rat (mg/l)	2.2 mg/l/4h
ATE US (oral)	300 mg/kg body weight
ATE US (dermal)	2000 mg/kg body weight
ATE US (gases)	4500 ppmV/4h
ATE US (vapors)	2.2 mg/l/4h
ATE US (dust, mist)	2.2 mg/l/4h

#### C9-11 alcohol ethoxylate (68439-46-3)

LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg

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<b>Quaternary C12-14 alkyl methylamine ethoxylate methylchloride (1554325-20-0)</b>	
LD50 oral rat	300 - 2000 mg/kg
ATE US (oral)	300 mg/kg body weight

<b>2-aminoethanol, ethanolamine (141-43-5)</b>	
LD50 oral rat	300 - 2000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (mg/l)	1 - 5 mg/l/4h
ATE US (oral)	300 mg/kg body weight
ATE US (gases)	4500 ppmV/4h
ATE US (vapors)	1 mg/l/4h
ATE US (dust, mist)	1 mg/l/4h

Skin corrosion/irritation	: Causes severe skin burns and eye damage. pH: ≈ 12
Serious eye damage/irritation	: Eye damage, category 1, implicit pH: ≈ 12
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified

<b>2-butoxyethanol, ethylene glycol monobutyl ether, butyl cellosolve (111-76-2)</b>	
IARC group	3 - Not classifiable

Reproductive toxicity	: Not classified
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Specific target organ toxicity – single exposure	: Not classified
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<b>2-aminoethanol, ethanolamine (141-43-5)</b>	
Specific target organ toxicity – single exposure	May cause respiratory irritation.

Specific target organ toxicity – repeated exposure	: Not classified
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Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Potential Adverse human health effects and symptoms	: Harmful if swallowed.
Symptoms/effects	: Causes severe skin burns and eye damage.
Symptoms/effects after inhalation	: May cause respiratory irritation.
Symptoms/effects after ingestion	: Swallowing a small quantity of this material will result in serious health hazard.

## SECTION 12: Ecological information

### 12.1. Toxicity

<b>2-butoxyethanol, ethylene glycol monobutyl ether, butyl cellosolve (111-76-2)</b>	
LC50 fish 1	1474 mg/l
EC50 Daphnia 1	1550 mg/l
ErC50 (algae)	911 mg/l

<b>C9-11 alcohol ethoxylate (68439-46-3)</b>	
LC50 fish 1	1 - 10 mg/l
EC50 Daphnia 1	1 - 10 mg/l
ErC50 (algae)	1 - 10 mg/l

<b>Quaternary C12-14 alkyl methylamine ethoxylate methylchloride (1554325-20-0)</b>	
LC50 fish 1	10 - 100 mg/l
EC50 Daphnia 1	1 - 10 mg/l
ErC50 (algae)	1 - 10 mg/l

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### 2-aminoethanol, ethanolamine (141-43-5)

LC50 fish 1	349 mg/l
EC50 Daphnia 1	65 mg/l
NOEC (chronic)	0.85 mg/l
NOEC chronic fish	1.2 mg/l

### 12.2. Persistence and degradability

#### Intensive Cleaner 500

Persistence and degradability	Not established.
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#### C9-11 alcohol ethoxylate (68439-46-3)

Biodegradation	> 60 %
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#### Quaternary C12-14 alkyl methylamine ethoxylate methylchloride (1554325-20-0)

Biodegradation	> 60 %
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### 12.3. Bioaccumulative potential

#### Intensive Cleaner 500

Bioaccumulative potential	Not established.
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#### 2-butoxyethanol, ethylene glycol monobutyl ether, butyl cellosolve (111-76-2)

Log Pow	0.81
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#### 2-aminoethanol, ethanolamine (141-43-5)

Log Pow	-1.3
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### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.  
Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.  
Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

### Department of Transportation (DOT)

In accordance with DOT

Other information : No supplementary information available.

### Transportation of Dangerous Goods

### Transport by sea

### Air transport

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

#### 2-butoxyethanol, ethylene glycol monobutyl ether, butyl cellosolve (111-76-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

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### C9-11 alcohol ethoxylate (68439-46-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

EPA TSCA Regulatory Flag

XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).

### Quaternary C12-14 alkyl methylamine ethoxylate methylchloride (1554325-20-0)

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

### 2-aminoethanol, ethanolamine (141-43-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

## 15.2. International regulations

### CANADA

#### 2-butoxyethanol, ethylene glycol monobutyl ether, butyl cellosolve (111-76-2)

Listed on the Canadian DSL (Domestic Substances List)

#### C9-11 alcohol ethoxylate (68439-46-3)

Listed on the Canadian DSL (Domestic Substances List)

#### Quaternary C12-14 alkyl methylamine ethoxylate methylchloride (1554325-20-0)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

#### 2-aminoethanol, ethanolamine (141-43-5)

Listed on the Canadian DSL (Domestic Substances List)

### EU-Regulations

### National regulations

#### Intensive Cleaner 500

All components are REACH registered or exempted from REACH registration.

## 15.3. US State regulations

## SECTION 16: Other information

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Revision date : 06/25/2019

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

Full text of H-phrases:

H227	Combustible liquid
H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H401	Toxic to aquatic life
H402	Harmful to aquatic life
H412	Harmful to aquatic life with long lasting effects



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SDS US (GHS HazCom 2012)

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*