

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Turbo Clean Intensivreiniger

Revision date: 16.09.2016

Product code: 100110

Page 1 of 9

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

### 1.1. Product identifier

Turbo Clean Intensivreiniger

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

#### Use of the substance/mixture

Cleaning agent, alkaline

### 1.3. Details of the supplier of the safety data sheet

Company name:	Obermark Chemie GmbH & Co. KG	
	Chemisch-technische Erzeugnisse	
Street:	Feldstr. 33	
Place:	D-33609 Bielefeld	
Telephone:	0521-34118	Telefax: 0521-323162
e-mail:	info@obermark-chemie.de	
Contact person:	Herr Obermark	Telephone: 0521-34118
Responsible Department:	0521-34118	

### 1.4. Emergency telephone number:

+49(030-30686790)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Regulation (EC) No. 1272/2008

Hazard categories:

Skin corrosion/irritation: Skin Corr. 1A

Serious eye damage/eye irritation: Eye Dam. 1

Hazard Statements:

Causes severe skin burns and eye damage.

Causes serious eye damage.

The classification as corrosive is due to the extreme pH.

### 2.2. Label elements

#### Regulation (EC) No. 1272/2008

#### Hazard components for labelling

potassium hydroxide

Signal word: Danger

#### Pictograms:



#### Hazard statements

H314 Causes severe skin burns and eye damage.

#### Precautionary statements

P280 Wear protective gloves/eye protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

P332+P313 If skin irritation occurs: Get medical advice/attention.

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.

### 2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. Restricted

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Turbo Clean Intensivreiniger

Revision date: 16.09.2016

Product code: 100110

Page 2 of 9

to professional users.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
5064-31-3	trisodium nitrilotriacetate			1 - < 5 %
	225-768-6	607-620-00-6		
	Carc. 2, Acute Tox. 4, Eye Irrit. 2; H351 H302 H319			
112-34-5	2-(2-Butoxyethoxy)ethanol			<5 %
	203-961-6	603-096-00-8		
	Eye Irrit. 2; H319			
68439-46-3	C9-11 Alkoholethoxylat			1 - < 5 %
	Eye Dam. 1; H318			
1310-58-3	Kaliumhydroxidlösung			< 1 %
	215-181-3	019-002-00-8		
	Acute Tox. 4, Skin Corr. 1A; H302 H314			

Full text of H and EUH statements: see section 16.

#### Further Information

Labelling for contents according to regulation (EC) No. 648/2004:  
< 5 % non-ionic surfactants , cationic surfactants , NTA.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

Avoid contact with skin, eyes and clothes. Remove contaminated, saturated clothing immediately.

#### After inhalation

No known symptoms to date.

#### After contact with skin

After contact with skin, wash immediately with: Water.  
In case of skin irritation, seek medical treatment.

#### After contact with eyes

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

#### After ingestion

Do NOT induce vomiting.  
Let water be drunken in little sips (dilution effect).  
Call a physician immediately.

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

No data available

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

Treat symptomatically.

## SECTION 5: Firefighting measures

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Turbo Clean Intensivreiniger

Revision date: 16.09.2016

Product code: 100110

Page 3 of 9

#### **5.1. Extinguishing media**

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

High power water jet. High power water jet.

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

In case of fire may be liberated:

Gas/vapours, harmful.

Gas/vapours, irritant.

#### **5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus.

#### **Additional information**

Contaminated fire-fighting water must not get into the sewerage network.

### **SECTION 6: Accidental release measures**

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

Wear personal protection equipment.

High slip hazard because of leaking or spilled product.

Remove persons to safety.

#### **6.2. Environmental precautions**

Do not allow to enter into soil/subsoil. If the product contaminates lakes, rivers or sewers information in accordance with local laws, the appropriate authorities. Do not allow to enter into surface water or drains.

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

Clean contaminated articles and floor according to the environmental legislation.

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

#### **6.4. Reference to other sections**

Personal protection equipment: see section 8

### **SECTION 7: Handling and storage**

#### **7.1. Precautions for safe handling**

##### **Advice on safe handling**

Avoid contact with skin and eyes.

When using do not eat, drink or smoke.

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

The product is not: Combustible.

##### **Further information on handling**

Keep only in the original container.

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

##### **Requirements for storage rooms and vessels**

Keep away from food, drink and animal feedingstuffs.

Store only in original container.

##### **Further information on storage conditions**

Keep container tightly closed.

### **SECTION 8: Exposure controls/personal protection**

#### **8.1. Control parameters**

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Turbo Clean Intensivreiniger

Revision date: 16.09.2016

Product code: 100110

Page 4 of 9

#### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
112-34-5	2-(2-Butoxyethoxy)ethanol	10	67.5		TWA (8 h)	WEL
		15	101.2		STEL (15 min)	WEL
1310-58-3	Potassium hydroxide	-	-		TWA (8 h)	WEL
		-	2		STEL (15 min)	WEL

#### Additional advice on limit values

Observe in addition any national regulations!

#### 8.2. Exposure controls



#### Protective and hygiene measures

Do not eat, drink, smoke or sneeze at the workplace.  
Keep away from: food, feeding stuff

#### Eye/face protection

Suitable eye protection: Tightly sealed safety glasses.  
German Industry Norms (DIN) / European Norms (EN): DIN EN 165

#### Hand protection

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.  
Tested protective gloves are to be worn: German Industry Norms (DIN) / European Norms (EN): DIN EN 374  
Suitable material: PE (polyethylene). NBR (Nitrile rubber).  
Breakthrough times and swelling properties of the material must be taken into consideration.

#### Skin protection

For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes). Alkalies solid working clothes.

#### Respiratory protection

Respiratory protection necessary at: exceeding exposure limit values  
Suitable respiratory protective equipment: Full-/Half-/Quarter-Masks (DIN EN 136/140).

#### Environmental exposure controls

Do not allow uncontrolled leakage of product into the environment.

### SECTION 9: Physical and chemical properties

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

Physical state: liquid  
Colour: red  
Odour: product-specific

pH-Value (at 20 °C): ca. 13.5

#### Changes in the physical state

Melting point: not determined  
Initial boiling point and boiling range: 95 °C  
Sublimation point: not determined

#### Test method

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Turbo Clean Intensivreiniger**

Revision date: 16.09.2016

Product code: 100110

Page 5 of 9

Softening point: not determined

Flash point: no relevant

**Explosive properties**  
not Explosive.

**Oxidizing properties**  
Not combustible.

Vapour pressure: no relevant

Vapour pressure: no relevant

Density (at 20 °C): 1,033 g/cm<sup>3</sup>

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

Reacts with : Acid.

**10.2. Chemical stability**

The mixture is chemically stable under recommended conditions of storage, use and temperature.

**10.3. Possibility of hazardous reactions**

no data available

**10.4. Conditions to avoid**

Offering protection against frost.

**10.5. Incompatible materials**

no data available

**10.6. Hazardous decomposition products**

Thermal decomposition can lead to the escape of irritating gases and vapors.

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

**Toxicocinetics, metabolism and distribution**

No data available

**Acute toxicity**

Based on available data, the classification criteria are not met.

CAS No	Chemical name			
	Exposure route	Dose	Species	Source
5064-31-3	trisodium nitrilotriacetate			
	oral	ATE 500 mg/kg		
112-34-5	2-(2-Butoxyethoxy)ethanol			
	oral	LD50 5660 mg/kg	Rat	
	dermal	LD50 4120 mg/kg	Rabbit	
68439-46-3	C9-11 Alkoholethoxylat			
	oral	LD50 > 5000 mg/kg	Ratte	
	dermal	LD50 > 2000 mg/kg	Ratte	
1310-58-3	Kaliumhydroxidlösung			
	oral	LD50 273 mg/kg	Rat	RTECS

**Irritation and corrosivity**

Causes severe skin burns and eye damage.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Turbo Clean Intensivreiniger**

Revision date: 16.09.2016

Product code: 100110

Page 6 of 9

**Sensitising effects**

Based on available data, the classification criteria are not met.

**Carcinogenic/mutagenic/toxic effects for reproduction**

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**

Based on available data, the classification criteria are not met.

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**Specific effects in experiment on an animal**

keine Daten vorhanden

**Practical experience**

**Observations relevant to classification**

no data available

**Other observations**

no data available

**SECTION 12: Ecological information**

**12.1. Toxicity**

According to the present state of knowledge negative ecological effects are not expected.

CAS No	Chemical name				
	Aquatic toxicity	Dose	[h]   [d]	Species	Source
112-34-5	2-(2-Butoxyethoxy)ethanol				
	Acute algae toxicity	ErC50	> 100 mg/l		Scenedesmus sp.
	Acute crustacea toxicity	EC50	> 100 mg/l	48 h	Daphnia magna
68439-46-3	C9-11 Alkoholethoxylat				
	Acute fish toxicity	LC50	>1-10 mg/l	96 h	Fisch
	Acute algae toxicity	ErC50	>1-10 mg/l	72 h	Algen
	Acute crustacea toxicity	EC50	>1-10 mg/l	48 h	Daphnia magna
1310-58-3	Kaliumhydroxidlösung				
	Acute fish toxicity	LC50	80 mg/l	96 h	Gambusia affinis
					IUCLID

**12.2. Persistence and degradability**

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

**12.3. Bioaccumulative potential**

No indication of bio-accumulation potential.

**Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
112-34-5	2-(2-Butoxyethoxy)ethanol	0,56 (25°C)

**12.4. Mobility in soil**

No data available

**12.6. Other adverse effects**

due to the alkaline character of the product, usually, it has to be neutralized before contaminated effluents are

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Turbo Clean Intensivreiniger

Revision date: 16.09.2016

Product code: 100110

Page 7 of 9

introduced into the waste water treatment system.

#### Further information

On the basis of existing data about disposal/decomposition and bio-accumulation potential, long term environmental damage is unlikely.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

##### Advice on disposal

According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process. Dispose of waste according to applicable legislation.

##### Waste disposal number of waste from residues/unused products

200129 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS; separately collected fractions (except 15 01); detergents containing hazardous substances  
Classified as hazardous waste.

##### Contaminated packaging

Dispose of waste according to applicable legislation.  
Non-contaminated packages must be recycled or disposed of.  
Completely emptied packings can be re-cycled.  
Handle contaminated packages in the same way as the substance itself.

### SECTION 14: Transport information

#### Land transport (ADR/RID)

<b>14.1. UN number:</b>	UN 1719
<b>14.2. UN proper shipping name:</b>	CAUSTIC ALKALI LIQUID, N.O.S. (Contains: potassium hydroxide, Trinatriumnitilotriacetat)
<b>14.3. Transport hazard class(es):</b>	8
<b>14.4. Packing group:</b>	III
Hazard label:	8



Classification code:	C5
Special Provisions:	274
Limited quantity:	5 L
Excepted quantity:	E1
Transport category:	3
Hazard No:	80
Tunnel restriction code:	E

#### Inland waterways transport (ADN)

<b>14.1. UN number:</b>	UN 1719
<b>14.2. UN proper shipping name:</b>	CAUSTIC ALKALI LIQUID, N.O.S. (Contains: potassium hydroxide, Trinatriumnitilotriacetat)
<b>14.3. Transport hazard class(es):</b>	8
<b>14.4. Packing group:</b>	III
Hazard label:	8

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Turbo Clean Intensivreiniger

Revision date: 16.09.2016

Product code: 100110

Page 8 of 9



Classification code: C5  
Special Provisions: 274  
Limited quantity: 5 L  
Excepted quantity: E1

#### Marine transport (IMDG)

**14.1. UN number:** UN 1719  
**14.2. UN proper shipping name:** CAUSTIC ALKALI LIQUID, N.O.S. (Contains: sodium hydroxide, nitrilotriacetic acid)  
**14.3. Transport hazard class(es):** 8  
**14.4. Packing group:** III  
Hazard label: 8



Special Provisions: 223, 274  
Limited quantity: 5 L  
Excepted quantity: E1  
EmS: F-A, S-B  
Segregation group: alkalis

#### Air transport (ICAO-TI/IATA-DGR)

**14.1. UN number:** UN 1719  
**14.2. UN proper shipping name:** CAUSTIC ALKALI LIQUID, N.O.S. (Contains: sodium hydroxide, nitrilotriacetic acid)  
**14.3. Transport hazard class(es):** 8  
**14.4. Packing group:** III  
Hazard label: 8



Special Provisions: A3 A803  
Limited quantity Passenger: 1 L  
Passenger LQ: Y841  
Excepted quantity: E1  
IATA-packing instructions - Passenger: 852  
IATA-max. quantity - Passenger: 5 L  
IATA-packing instructions - Cargo: 856  
IATA-max. quantity - Cargo: 60 L

#### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

#### 14.6. Special precautions for user

No-one

#### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

no relevant

### SECTION 15: Regulatory information



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Turbo Clean Intensivreiniger

Revision date: 16.09.2016

Product code: 100110

Page 9 of 9

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

##### **EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 55: 2-(2-Butoxyethoxy)ethanol

2010/75/EU (VOC): 1,9 % (19,627 g/l)

2004/42/EC (VOC): 1,9 % (19,627 g/l)

##### **Additional information**

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

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

Classification according to Regulation (EC) No. 1272/2008 [CLP]

##### **National regulatory information**

Water contaminating class (D): 1 - slightly water contaminating

#### **15.2. Chemical safety assessment**

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

### **SECTION 16: Other information**

##### **Changes**

This data sheet contains changes from the previous version in section(s): 1,2,3,11,13,15.

##### **Relevant H and EUH statements (number and full text)**

Harmful if swallowed.

Causes severe skin burns and eye damage.

Causes serious eye damage.

Causes serious eye irritation.

Suspected of causing cancer.

##### **Further Information**

The processing and application notes are on the technical leaflets to the products. The details are based on today's stand of our knowledge, they don't represent any assurance of product qualities, however, and don't justify any contractual facts of the case.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

---

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*