

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## TERMINATOR

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

#### 1.1. Product identifier

TERMINATOR

UFI: TY90-Q4AM-1SNW-6278

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

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

Company name: ARCORA International GmbH  
Street: Marsstraße 9  
Place: D-85609 Aschheim  
Telephone: +49 (0)89 / 14 33 29 3-0      Telefax: +49 (0)89 / 14 33 29 3-29  
e-mail: info@arcora.de

**1.4. Emergency telephone number:** Giftnotruf der Charité - Universitätsmedizin Berlin -24H- Tel.: 030 30686700

### SECTION 2: Hazards identification

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

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

Hazard categories:

Skin corrosion/irritation: Skin Corr. 1

Serious eye damage/eye irritation: Eye Dam. 1

Hazard Statements:

Causes severe skin burns and eye damage.

Causes serious eye damage.

#### 2.2. Label elements

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

##### Hazard components for labelling

2-Butoxy-ethanol (vgl. Butylglykol)

Monoethanolamin 98/100

Isotridecanol, ethoxyliert (7-14 EO)

sodium hydroxide; caustic soda

**Signal word:** Danger

**Pictograms:**



##### Hazard statements

H314 Causes severe skin burns and eye damage.

##### Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash mit Wasser thoroughly after handling.

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

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

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P363 Wash contaminated clothing before reuse.  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P310 Immediately call a POISON CENTER/doctor.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER/doctor.  
P405 Store locked up.  
P501 Dispose of contents/container to gemäß Behördlichen anforderungen der Entsorgung.

### Special labelling of certain mixtures

EUH071 Corrosive to the respiratory tract.

### 2.3. Other hazards

No information available.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
111-76-2	2-Butoxy-ethanol (vgl. Butylglykol)			5 - < 10 %
	203-905-0		01-2119475108-36	
	Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2; H332 H312 H302 H315 H319			
141-43-5	Monoethanolamin 98/100			1 - < 5 %
	Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B, STOT SE 3; H332 H312 H302 H314 H335			
9043-30-5	Isotridecanol, ethoxyliert (7-14 EO)			1 - < 5 %
	Acute Tox. 4, Eye Dam. 1; H302 H318			
1310-73-2	sodium hydroxide; caustic soda			1 - < 5 %
	215-185-5			
	Met. Corr. 1, Skin Corr. 1A; H290 H314			

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

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### Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
111-76-2	203-905-0	2-Butoxy-ethanol (vgl. Butylglykol)	5 - < 10 %
		inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = 1200 mg/kg; oral: LD50 = 1480 mg/kg	
141-43-5		Monoethanolamin 98/100	1 - < 5 %
		inhalation: Data lacking (gases); dermal: LD50 = 1000 mg/kg; oral: LD50 = 2050 mg/kg	
9043-30-5		Isotridecanol, ethoxyliert (7-14 EO)	1 - < 5 %
		dermal: LD50 = >2000 mg/kg; oral: LD50 = 556 mg/kg	
1310-73-2	215-185-5	sodium hydroxide; caustic soda	1 - < 5 %
		inhalation: Data lacking (gases); dermal: Data lacking; oral: Data lacking Skin Corr. 1A; H314: >= 5 - 100 Skin Corr. 1B; H314: >= 2 - < 5 Skin Irrit. 2; H315: >= 0,5 - < 2 Eye Irrit. 2; H319: >= 0,5 - < 2	

### Labelling for contents according to Regulation (EC) No 648/2004

< 5 % non-ionic surfactants.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

First aider: Pay attention to self-protection! Remove affected person from the danger area and lay down.

#### After inhalation

Provide fresh air. Medical treatment necessary.

#### After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.

#### After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

#### After ingestion

Rinse mouth immediately and drink 1 glass of water. Do NOT induce vomiting. Adverse human health effects and symptoms: Gastric perforation. Call a physician immediately. Do not allow a neutralisation agent to be drunk.

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

No information available.

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

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

Non-flammable.

### 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

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### Additional information

Suppress gases/vapours/mists with water spray jet.

## SECTION 6: Accidental release measures

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

#### General advice

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

### 6.2. Environmental precautions

No special environmental measures are necessary. Clean contaminated articles and floor according to the environmental legislation.

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

#### Other information

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

### 6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

#### Advice on protection against fire and explosion

No special fire protection measures are necessary.

#### Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff.

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

#### Requirements for storage rooms and vessels

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaust at critical locations.

#### Hints on joint storage

No special measures are necessary.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limit values

CAS No	Name of agent	ppm	mg/m <sup>3</sup>	fib/cm <sup>3</sup>	Category	Origin
111-76-2	2-Butoxyethanol	20	98		TWA (8 h)	
		50	246		STEL (15 min)	

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### DNEL/DMEL values

CAS No	Name of agent			
DNEL type		Exposure route	Effect	Value
111-76-2	2-Butoxy-ethanol (vgl. Butylglykol)			
Consumer DNEL, long-term		oral	systemic	6,3 mg/kg bw/day
Consumer DNEL, acute		oral	systemic	26,7 mg/kg bw/day
Consumer DNEL, acute		dermal	systemic	89 mg/kg bw/day
Worker DNEL, acute		dermal	systemic	89 mg/kg bw/day
Consumer DNEL, long-term		dermal	systemic	75 mg/kg bw/day
Worker DNEL, long-term		dermal	systemic	125 mg/kg bw/day
Consumer DNEL, acute		inhalation	systemic	426 mg/m <sup>3</sup>
Worker DNEL, acute		inhalation	systemic	1091 mg/m <sup>3</sup>
Consumer DNEL, long-term		inhalation	systemic	59 mg/m <sup>3</sup>
Worker DNEL, long-term		inhalation	systemic	98 mg/m <sup>3</sup>
Worker DNEL, acute		inhalation	local	246 mg/m <sup>3</sup>
Consumer DNEL, long-term		inhalation	local	147 mg/m <sup>3</sup>
1310-73-2	sodium hydroxide; caustic soda			
Worker DNEL, long-term		inhalation	local	1 mg/m <sup>3</sup>
Consumer DNEL, long-term		inhalation	local	1 mg/m <sup>3</sup>

### PNEC values

CAS No	Name of agent		
Environmental compartment			Value
111-76-2	2-Butoxy-ethanol (vgl. Butylglykol)		
Freshwater			8,8 mg/l
Freshwater (intermittent releases)			9,1 mg/l
Marine water			0,88 mg/l
Freshwater sediment			34,6 mg/kg
Marine sediment			3,46 mg/kg
Micro-organisms in sewage treatment plants (STP)			463 mg/l
Soil			2,33 mg/kg

### 8.2. Exposure controls



#### Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

#### Individual protection measures, such as personal protective equipment

##### Eye/face protection

Suitable eye protection: goggles.

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### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. 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. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

### Skin protection

Use of protective clothing.

### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

## SECTION 9: Physical and chemical properties

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

Physical state:	Liquid
Colour:	clear
Odour:	characteristic

#### Changes in the physical state

Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	not determined
Flash point:	not determined

#### Flammability

Solid/liquid:	not applicable
Gas:	not applicable

#### Explosive properties

The product is not: Explosive.

Lower explosion limits:	not determined
Upper explosion limits:	not determined

#### Self-ignition temperature

Solid:	not applicable
Gas:	not applicable

Decomposition temperature:	not determined
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#### Oxidizing properties

The product is not: oxidising.

pH-Value (at 20 °C):	12
Water solubility:	easily soluble

#### Solubility in other solvents

not determined

Partition coefficient n-octanol/water:	not determined
Vapour pressure:	not determined
Density (at 20 °C):	1,01 g/cm <sup>3</sup>
Relative vapour density:	not determined

### 9.2. Other information

#### Other safety characteristics

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Solid content:

not determined

Evaporation rate:

not determined

### Further Information

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Possibility of hazardous reactions.

### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

Exothermic reaction with: Acid, Peroxides, Oxidizing agent.

### 10.4. Conditions to avoid

none

### 10.5. Incompatible materials

Keep away from: Acid, Oxidizing agent, Peroxides.

### 10.6. Hazardous decomposition products

No known hazardous decomposition products.

## SECTION 11: Toxicological information

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

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### Acute toxicity

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
111-76-2	2-Butoxy-ethanol (vgl. Butylglykol)				
	oral	LD50 1480 mg/kg	Rat		
	dermal	LD50 1200 mg/kg	Kaninchen		
	inhalation vapour	ATE 11 mg/l			
	inhalation aerosol	ATE 1,5 mg/l			
141-43-5	Monoethanolamin 98/100				
	oral	LD50 2050 mg/kg	rat		
	dermal	LD50 1000 mg/kg	rbt		
	inhalation	Data lacking			
9043-30-5	Isotridecanol, ethoxyliert (7-14 EO)				
	oral	LD50 556 mg/kg	Ratte		
	dermal	LD50 >2000 mg/kg	Kaninchen		
1310-73-2	sodium hydroxide; caustic soda				
	oral	Data lacking			
	dermal	Data lacking			
	inhalation	Data lacking			

### Additional information on tests

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

## SECTION 12: Ecological information

### 12.1. Toxicity

The product is not: Ecotoxic.



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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
111-76-2	2-Butoxy-ethanol (vgl. Butylglykol)					
	Acute fish toxicity	LC50 1474 mg/l	96 h	RegenbogenForelle		
	Acute crustacea toxicity	EC50 1550 mg/l	48 h	Wasserfloh		
	Fish toxicity	NOEC >100 mg/l	21 d	Zebrabärbling		
141-43-5	Monoethanolamin 98/100					
	Acute fish toxicity	LC50 150 mg/l	96 h	(Oncorhynchus mykiss)		
	Acute algae toxicity	ErC50 15 mg/l	72 h	Scenedesmus subspicatus		
	Acute crustacea toxicity	EC50 15 mg/l	48 h	(Daphnia magna)		
9043-30-5	Isotridecanol, ethoxyliert (7-14 EO)					
	Acute fish toxicity	LC50 >1-10 mg/l	96 h	Cyprinus carpio		
	Acute algae toxicity	ErC50 >1-10 mg/l	72 h	Desmodesmus subspicatus		
	Acute crustacea toxicity	EC50 >1-10 mg/l	48 h	Daphnia magna		
1310-73-2	sodium hydroxide; caustic soda					
	Acute crustacea toxicity	EC50 40,4 mg/l	48 h	Ceriodaphnia dubia		

### 12.2. Persistence and degradability

The product has not been tested.

### 12.3. Bioaccumulative potential

The product has not been tested.

### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
111-76-2	2-Butoxy-ethanol (vgl. Butylglykol)	0,81 (25°C)

### 12.4. Mobility in soil

The product has not been tested.

### 12.5. Results of PBT and vPvB assessment

The product has not been tested.

### 12.7. Other adverse effects

No information available.

### Further information

Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Disposal recommendations

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

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### Contaminated packaging

Wash with plenty of water. Completely emptied packages can be recycled.

## SECTION 14: Transport information

### Land transport (ADR/RID)

**14.1. UN number or ID number:** UN 2491  
**14.2. UN proper shipping name:** ETHANOLAMINE SOLUTION  
**14.3. Transport hazard class(es):** 8  
**14.4. Packing group:** III  
Hazard label: 8



Classification code: C7  
Limited quantity: 5 L  
Excepted quantity: E1  
Transport category: 3  
Hazard No: 80  
Tunnel restriction code: E

### Inland waterways transport (ADN)

**14.1. UN number or ID number:** UN 2491  
**14.2. UN proper shipping name:** ETHANOLAMINE SOLUTION  
**14.3. Transport hazard class(es):** 8  
**14.4. Packing group:** III  
Hazard label: 8



Classification code: C7  
Limited quantity: 5 L  
Excepted quantity: E1

### Marine transport (IMDG)

**14.1. UN number or ID number:** UN 2491  
**14.2. UN proper shipping name:** ETHANOLAMIN, LÖSUNG  
**14.3. Transport hazard class(es):** 8  
**14.4. Packing group:** III  
Hazard label: 8



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

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

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**14.1. UN number or ID number:** UN 2491  
**14.2. UN proper shipping name:** ETHANOLAMIN, LÖSUNG  
**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

### **14.6. Special precautions for user**

Warning: strongly corrosive.

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

not applicable

## SECTION 15: Regulatory information

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

#### **EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3

2010/75/EU (VOC): 8 % (80,8 g/l)  
2004/42/EC (VOC): 8 % (80,8 g/l)  
Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

#### **Additional information**

Regulation (EC) No. 648/2004 (Detergents regulation).

#### **National regulatory information**

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).  
Water hazard class (D): - - non-hazardous to water

### **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.

#### **Abbreviations and acronyms**

CLP: Classification, labelling and Packaging  
REACH: Registration, Evaluation and Authorization of Chemicals

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GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

UN: United Nations

CAS: Chemical Abstracts Service

DNEL: Derived No Effect Level

DMEL: Derived Minimal Effect Level

PNEC: Predicted No Effect Concentration

ATE: Acute toxicity estimate

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

LL50: Lethal loading, 50%

EL50: Effect loading, 50%

EC50: Effective Concentration 50%

ErC50: Effective Concentration 50%, growth rate

NOEC: No Observed Effect Concentration

BCF: Bio-concentration factor

PBT: persistent, bioaccumulative, toxic

vPvB: very persistent, very bioaccumulative

ADR: Accord européen sur le transport des marchandises dangereuses par Route

(European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Regulations concerning the international carriage of dangerous goods by rail

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)

IMDG: International Maritime Code for Dangerous Goods

EmS: Emergency Schedules

MFAG: Medical First Aid Guide

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

MARPOL: International Convention for the Prevention of Marine Pollution from Ships

IBC: Intermediate Bulk Container

VOC: Volatile Organic Compounds

SVHC: Substance of Very High Concern

For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>

### Classification for mixtures and used evaluation method according to regulation (EC) No. 1272/2008 [CLP]

Classification	Classification procedure
Skin Corr. 1; H314	On basis of test data
Eye Dam. 1; H318	On basis of test data

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

H290	May be corrosive to metals.
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.
EUH071	Corrosive to the respiratory tract.

### Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible

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for adhering to existing laws and regulations.

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