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

1.1 Product identifier

INPUR

UFI: 0E7X-99R1-3W93-C0N3

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
Tel: +49 (0)89 / 14 33 29 3-0 Fax: +49 (0)89 / 14 33 29 3-29
E-Mail: info@arcora.de

1.4 Emergency telephone number

Poison control centre of the Charité – Universitätsmedizin Berlin 24H- Tel.: 030 30686700

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Regulation (EC) Nr. 1272/2008

Hazard categories:
Skin corrosion/irritation: Skin cor. 1
Serious eye damage/eye irritation: Eye damage 1
Hazard statements:
Causes severe skin burns and eye damage.
Causes severe eye damage.

2.2 Label elements

Regulation (EC) No 1272/2008

Hazard-determining components of labelling

2-Butoxy-ethanol (cf. butyl glycol)
Isotridecanol, ethoxylated (7-14 EO)
Sodium hydroxide; caustic soda; sodium hydroxide solution
Potassium hydroxide (cf. caustic potash)

Signal word: Danger

Pictograms:

Hazard warnings

H314 Causes severe skin burns and eye damage.

Safety instructions

P260	Do not breathe dust/fume/gas/mist/vapour/aerosol.
P264	Wash thoroughly with water after use.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P301+P330+P331	IF INTOXICATED: Rinse out mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Remove all contaminated clothing immediately. Wash skin with water or shower.
P363	Wash contaminated clothing before wearing again.
P304+P340	IF INHALED: Remove the person to fresh air and ensure unobstructed breathing.
P310	Immediately call POISON CENTRE/doctor.
P321	Special handling (see advice on this label)
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove any contact lenses if possible. Continue to rinse.
P310	Immediately call POISON CENTRE/doctor.
P405	Keep under lock and key.
P501	Dispose of contents/container in accordance with official regulations.

2.3 Other hazards

No information available.

SECTION 3: Composition / information on ingredients

3.1 Mixtures

Hazardous ingredients

CAS-No.	Chemical name			Proportion
	EG-No.	Index-No.	REACH-No.	
	GHS-Classification			
111-76-2	2-Butoxy-ethanol (cf. butyl glycol)			10 - < 15 %
	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			
9043-30-5	Isotridecanol, ethoxylated (7-14 EO)			1 - < 5 %
	Acute Tox. 4, Eye Dam. 1; H302 H318			
15763-76-5	Sodium p-cumene sulphonate			1 - < 5 %

	Eye Irrit. 2; H319			
164524-02-1	Potassium p-cumene sulphonate			1 - < 5 %
	629-764-9			
	Eye Irrit. 2; H319			
1310-73-2	Sodium hydroxide; caustic soda; sodium hydroxide solution			1 - < 5 %
	215-185-5			
	Met. Corr. 1, Skin Corr. 1A; H290 H314			
1310-58-3	Potassium hydroxide (cf. caustic potash)			1 - < 5 %
	215-181-3		01-2119487136-33	
	Met. Corr. 1, Acute Tox. 4, Skin Corr. 1A; H290 H302 H314			

Wording of H- and EUH-phrases: see section 16.

Specific concentration limits and M-factors

CAS-No.	EG-No.	Chemical name	Proportion
	Specific concentration limits, M-factors and ATE		
111-76-2	203-905-0	2-Butoxy-ethanol (cf. butyl glycol)	10 - < 15 %
	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		
9043-30-5		Isotridecanol, ethoxylated (7-14 EO)	1 - < 5 %
	dermal: LD50 = >2000 mg/kg; oral: LD50 = 556 mg/kg		
15763-76-5		Sodium p-cumene sulphonate	1 - < 5 %
	inhalation: missing data (gases); dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 2000 mg/kg		
164524-02-1	629-764-9	Kalium-p-cumolsulfonat	1 - < 5 %
	inhalation: missing data (gases); dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 2000 mg/kg		
1310-73-2	215-185-5	Sodium hydroxide; caustic soda; sodium hydroxide solution	1 - < 5 %
	Inhalation: Missing data (gases); dermal: Missing data; oral: Missing data 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		
1310-58-3	215-181-3	Potassium hydroxide (cf. caustic potash)	1 - < 5 %
	oral: LD50 = 273 mg/kg		

Labelling of ingredients 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 aiders: Pay attention to self-protection! Remove the victim from the danger zone and lay him/her down.

After inhalation

Provide fresh air. Medical treatment necessary.

After skin contact

In case of contact with skin, wash immediately with plenty of soap and water. Immediately remove all contaminated clothing immediately and wash before wearing again. In case of skin irritation: Seek medical advice/attention.

After eye contact

In case of contact with eyes, rinse immediately with running water for 10 to 15 minutes with the eyelids open and consult an ophthalmologist.

After ingestion

Rinse mouth immediately and drink 1 glass of water. Do NOT induce vomiting. Possible adverse effects on humans and possible symptoms: Gastric perforation. Seek medical attention immediately. Do not allow to drink neutralising agent.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indications for immediate medical help or special treatment

Symptomatic treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Adapt extinguishing measures to the surroundings.

5.2 Special hazards arising from the substance or mixture

Not flammable.

5.3 Advice for firefighters

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

Additional informations

Knock down gases/vapors/mist with water spray. Collect contaminated extinguishing water separately. Do not allow to enter drains or waterways.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Do not breathe gas/fume/vapor/aerosol. Avoid contact with skin, eyes and Avoid contact with skin, eyes and clothing. Use personal protective equipment.

6.2 Environmental measures

Do not allow to enter drains or water courses.

6.3 Methods and material for retention and cleaning

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders). Treat the absorbed material according to the section Disposal.

6.4 Reference to other sections

Safe handling: see section 7
Personal protective equipment: see section 8
Disposal: see section 13

SECTION 7: Hand ling and storage

7.1 Protective measures for safe handling

Advice on safe handling

In case of open handling, use devices with local exhaust ventilation. Gas/fume/vapor/aerosol Do not inhale.

Notes on fire and explosion protection

No special fire protection measures required.

7.2 Conditions for safe storage taking into account incompatibilities

Requirements for storage rooms and containers

Keep container tightly closed. Store under lock and key. Store in a place accessible only to authorized persons. Ensure sufficient ventilation and spot extraction at critical points.

Information on storage in one place

No special precautions required.

Storage class according to TRGS 510: 12 (Non-flammable liquids that cannot be assigned to any of the above LG).

SECTION 8: Exposure controls/personal protective equipment

8.1. Parameters to be monitored

Occupational exposure limit values (TRGS 900)

CAS-No.	Chemical name	ppm	mg/m³	F/m³	Top gr.	Type
111-76-2	2-Butoxyethanol	10	49		2(I)	

Biological limit values (TRGS 903)

CAS-No.	Chemical name	Parameters	Limit	Sub-material	Rehearsals Time
111-76-2	2-Butoxyethanol	Butoxyacetic acid (after hydrolysis into creatinine)	150 mg/g	U	b,c

DNEL-/DMEL-values

CAS-No.	Chemical name			
DNEL Type		Exposure route	Effect	Value
111-76-2	2-Butoxy-ethanol (cf. butyl glycol)			
Consumer DNEL, long term		oral	systemic	6,3 mg/kg KG/d
Consumer DNEL, acute		oral	systemic	26,7 mg/kg KG/d
Consumer DNEL, acute		dermal	systemic	89 mg/kg KG/d
Employee DNEL, acute		dermal	systemic	89 mg/kg KG/d
Consumer DNEL, long term		dermal	systemic	75 mg/kg KG/d
Employee DNEL, long term		dermal	systemic	125 mg/kg KG/d
Consumer DNEL, acute		inhalative	systemic	426 mg/m³
Employee DNEL, acute		inhalative	systemic	1091 mg/m³
Consumer DNEL, long term		inhalative	systemic	59 mg/m³
Employee DNEL, long term		inhalative	systemic	98 mg/m³
Employee DNEL, acute		inhalative	local	246 mg/m³
Consumer DNEL, long term		inhalative	local	147 mg/m³
15763-76-5	Sodium p-cumene sulphonate			
Consumer DNEL, long term		oral	systemic	3,8 mg/kg KG/d
Employee DNEL, long term		dermal	systemic	136,25 mg/kg KG/d
Consumer DNEL, long term		dermal	systemic	68,1 mg/kg KG/d
Employee DNEL, long term		dermal	local	0,096 mg/cm²
Consumer DNEL, long term		dermal	local	0,048 mg/cm²
Employee DNEL, long term		inhalative	systemic	26,9 mg/m³
Consumer DNEL, long term		inhalative	systemic	6,6 mg/m³
164524-02-1	Potassium p-cumene sulphonate			
Consumer DNEL, long term		oral	systemic	3,8 mg/kg KG/d
Employee DNEL, long term		dermal	systemic	136,25 mg/kg KG/d
Consumer DNEL, long term		dermal	systemic	68,1 mg/kg KG/d
Employee DNEL, long term		dermal	local	0,096 mg/cm²
Consumer DNEL, long term		dermal	local	0,048 mg/cm²
Employee DNEL, long term		inhalative	systemic	26,9 mg/m³
1310-73-2	Sodium hydroxide; caustic soda;sodium hydroxide solution			

Employee DNEL, long term	inhalative	local	1 mg/m³
Consumer DNEL, long term	inhalative	local	1 mg/m³

PNEC-values

CAS-No.	Chemical name	
Environmental compartment		value
111-76-2	2-Butoxy-ethanol (cf. butyl glycol)	
Freshwater		8,8 mg/l
Fresh water (intermittent release)		9,1 mg/l
Seawater		0,88 mg/l
Freshwater sediment		34,6 mg/kg
Sea sediment		3,46 mg/kg
Microorganisms in sewage treatment plants		463 mg/l
Soil		2,33 mg/kg
15763-76-5	Sodium p-cumene sulphonate	
Freshwater		0,23 mg/l
Seawater		0,023 mg/l
Freshwater sediment		0,862 mg/kg
Sea sediment		0,086 mg/kg
Microorganisms in sewage treatment plants		100 mg/l
Soil		0,037 mg/l
164524-02-1	Potassium p-cumene sulphonate	
Freshwater		0,23 mg/l
Seawater		0,023 mg/l
Freshwater sediment		0,862 mg/kg
Sea sediment		0,086 mg/kg
Microorganisms in sewage treatment plants		100 mg/l
Soil		0,037 mg/kg

8.2 Exposure controls and monitoring

Suitable technical control devices

In case of open handling, use devices with local exhaust ventilation. Gas/fume/vapor/aerosol Do not inhale.

Protection and hygiene measures

Immediately remove soiled, saturated clothing. Draw up a skin protection plan and follow it! Wash hands and face thoroughly before breaks and at the end of work, shower if necessary. Do not eat, drink, smoke or sniff at the workplace.

Eye/face protection

Suitable eye protection: Basket goggles.

Hand protection

When handling chemical agents, only chemical protective gloves with a CE mark including a four-digit test number may be worn. Chemical protective gloves are be selected according to the concentration and quantity of the hazardous substance. specific to the workplace. It is recommended that the chemical resistance of the above-mentioned. It is recommended to clarify the chemical resistance of the above-mentioned protective gloves for special applications with the glove manufacturer.

Body protection

Use of protective clothing.

Breathing protection

Wear respiratory protection in case of insufficient ventilation.

SECTION 9: Physical and chemical properties

9.1 Information on the basic physical and chemical properties

Phyiscal state:	liquid	
Colour:	yellow-green	
Odour:	fresh	
pH-value (at 20°C):		12-13

Changes in the physical state

Melting point:	not determined
Initial boiling point and boiling range:	not determined
Flash point:	100 °C

Flammability

Solid:	not applicable
Gas:	not applicable

Explosion hazards

The product is not: Explosive.

Lower explosion limit:	not determined
Upper explosion limit:	not determined

Auto-ignition temperature

Solid:	not applicable
Gas:	not applicable
Decomposition temperature:	not determined

Oxidising properties

Not oxidising.

Vapour pressure:	not determined
Density (at 20 °C):	1,05 g/cm³
Solubility in water:	slightly soluble

Solubility in other solvents

Not determined

Partition coefficient:	not determined
Dyn. viscosity: (at 20 °C)	1 mm²/s
Vapour density:	not determined
Evaporation rate:	not determined

9.2 Other information

Solids content:	not determined

SECTION 10: Stability and reactivity

10.1 Reactivity

Possibility of hazardous reactions.

10.2 Chemical stability

The product is stable when stored at normal ambient temperatures.

10.3 Possibility of hazardous reactions

Exothermic reaction with: Acid, peroxides, oxidizing agents.

10.4 Conditions to avoid

none

10.5 Incompatible materials

Keep away from: Acid, oxidizing agents, peroxides.

10.6 Hazardous decomposition products

No dangerous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

CAS-No.	Chemical name				
	Exposure route	Dose	Species	Source	Method
111-76-2	2-Butoxy-ethanol (cf. butyl glycol)				

	oral	LD50 1480 mg/kg	Rat		
	dermal	LD50 1200 mg/kg	Rabbit		
	inhalative vapour	ATE 11 mg/l			
	inhalative Aerosol	ATE 1,5 mg/l			
9043-30-5	Isotridecanol, ethoxylated (7-14 EO)				
	oral	LD50 556 mg/kg	Rat		
	dermal	LD50 >2000 mg/kg	Rabbit		
15763-76-5	Sodium p-cumene sulphonate				
	oral	LD50 > 2000 mg/kg	Rat		
	dermal	LD50 > 2000 mg/kg	Rabbit		
	inhalative	Missing data			
164524-02-1	Potassium p-cumene sulphonate				
	oral	LD50 > 2000 mg/kg	Rat		
	dermal	LD50 > 2000 mg/kg	Rabbit		
	inhalative	Missing data			
1310-73-2	Sodium hydroxide; caustic soda; sodium hydroxide solution				
	oral	Missing data			
	dermal	Missing data			

	inhalative	Missing data			
1310-58-3	Potassium hydroxide (cf. caustic potash)				
	oral	LD50 273 mg/kg	Rabbit	RTECS	

Other information on examinations

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

SECTION 12: Environmental information

12.1 Toxicity

The product is not: Ecotoxic.

CAS-No.	Chemical name					
	Aquatic toxicity	Dose	[h] | [d]	Species	Source	Method
111-76-2	2-Butoxy-ethanol (cf. butyl glycol)					
	Acute fish toxicity	LC50 1474 mg/l	96 h	Rainbow trout		
	Acute Crustacean toxicity	EC50 1550 mg/l	48 h	Water flea		
	Fish toxicity	NOEC >100 mg/l	21 d	Zebrafish		
9043-30-5	Isotridecanol, ethoxylated (7-14 EO)					
	Acute fish toxicity	LC50 >1-10 mg/l	96 h	Cyprinus carpio		
	Acute algal toxicity	ErC50 >1-10 mg/l	72 h	Desmodesmus subspicatus		
	Acute Crustacean toxicity	EC50 >1-10 mg/l	48 h	Daphnia magna		
15763-76-5	Sodium p-cumene sulphonate					
	Acute fish toxicity	LC50 > 100 mg/l	96 h	Oncorhynchus mykiss)		
	Acute algal toxicity	ErC50 > 100 mg/l	72 h	Desmodesmus		

				subspicatus		
	Acute Crustacean toxicity	EC50 > 100 mg/l	48 h	Daphnia magna		
164524-02-1	Potassium p-cumene sulphonate					
	Acute fish toxicity	LC50 > 100 mg/l	96 h	Cyprinus carpio)		
	Acute algal toxicity	ErC50 > 100 mg/l	72 h	Desmodesmus subspicatus		
	Acute Crustacean toxicity	EC50 > 100 mg/l	48 h	Daphnia magna		
	Acute bacterial toxicity	(> 100 mg/l)	3 h	Activated sludge		OECD 209
1310-73-2	Sodium hydroxide; caustic soda; sodium hydroxide solution					
	Acute Crustacean toxicity	EC50 40,4 mg/l	48 h	Ceriodaphnia dubia		
1310-58-3	Potassium hydroxide (cf. caustic potash)					
	Acute fish toxicity	LC50 80 mg/l	96 h	Gambusia affinis	IUCLID	

12.2. Persistence and degradability

The product has not been tested.

12.3. Bioaccumulation potential

The product has not been tested.

Partition coefficient n-octanol/water

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

12.4. Mobility in soil

The product has not been tested.

12.5. Results of the PBT and vPvB assessment

The product has not been tested.

12.6. Other adverse effects

No information available.

Further notes

Avoid release into the environment.

SECTION 13: Disposal information

13.1 Waste treatment methods

Recommendation for disposal

Do not allow to enter drains or water courses. Dispose of in accordance with official regulations.

Disposal of uncleaned packaging and recommended cleaning agents

Wash off with plenty of water. Completely emptied packaging can be recycled.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1 UN-number:	Not a dangerous good in the sense of these Transport regulations.
14.2 proper UN-shipping name:	Not a dangerous good in the sense of these Transport regulations.
14.3 transport hazard class:	Not a dangerous good in the sense of these Transport regulations.
14.4 Packing group:	Not a dangerous good in the sense of these Transport regulations.

Inland waterway transport (ADN)

14.1 UN-number:	Not a dangerous good in the sense of these Transport regulations.
14.2 proper UN-shipping name:	Not a dangerous good in the sense of these Transport regulations.
14.3 transport hazard class:	Not a dangerous good in the sense of these Transport regulations.
14.4 Packing group:	Not a dangerous good in the sense of these Transport regulations.

Sea transport (IMDG)

14.1 UN-number:	Not a dangerous good in the sense of these Transport regulations.
14.2 proper UN-shipping name:	Not a dangerous good in the sense of these Transport regulations.
14.3 transport hazard class:	Not a dangerous good in the sense of these Transport regulations.
14.4 Packing group:	Not a dangerous good in the sense of these Transport regulations.

Air transport (ICAO-TI/IATA-DGR)

14.1 UN-number:	Not a dangerous good in the sense of these Transport regulations.
14.2 proper UN-shipping name:	Not a dangerous good in the sense of these Transport regulations.
14.3 transport hazard class:	Not a dangerous good in the sense of these Transport regulations.
14.4 Packing group:	Not a dangerous good in the sense of these Transport regulations.

14.5. Environmental hazards

ENVIRONMENTALLY DANGEROUS: No

14.6. Special precautions for the user

Warning: strongly corrosive.

14.7. carriage in bulk according to Annex II of MARPOL Convention and according to IBC Code

not applicable

SECTION 15: Legislation

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

EU-regulations

Restrictions on use (REACH, Annex XVII):

Entry 3

Information on IE Directive 2010/75/EU (VOC):	13 % (136.5 g/l)
Information on the VOC Directive 2004/42/EG:	13 % (136,5 g/l)
Information on the SEVESO III Directive 2012/18/EU:	Not subject to the SEVESO III Directive

National regulations

Employment restriction:	Observe employment restrictions for young people (§ 22 JArbSchG).
Water hazard class::	1 - slightly hazardous to water
Status:	Classification of mixtures according to Annex 1, No. 5 AwSV

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture have not been performed.

SECTION 16: Other information

Changes

This data sheet contains changes to the previous version in the section(s): 3,7,9,14,15.

Abbreviations and acronyms

REACH: Registration, Evaluation and Authorization of Chemicals
GHS: Globally Harmonized System of Classification, Labeling and Packaging of Chemicals
UN: United Nations
CAS: Chemical Abstraction Service
DNEL: Derived Non-Effect Level
DMEL: Derived minimum effect level
PNEC: Predicted No Effect Concentration
ATE: Acute toxicity estimate
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%
LL50: Lethal exposure, 50%
EL50: Effective exposure, 50%
EC50: Effective concentration 50%
ErC50: Effective concentration 50%, growth rate
NOEC: No observed effective concentration
BCF: Bio-concentration factor

PBT: persistent, bioaccumulative, toxic
vPvB: very persistent, very bioaccumulative
ADR: European Agreement concerning the Carriage of Dangerous Goods by Road (European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail (European Agreement concerning the International Carriage of Dangerous Goods by Road)
MARPOL: International Convention for the Prevention of Pollution from Ships
IBC: Intermediate Bulk Container
VOC: Volatile Organic Compounds
SVHC: Substance of Very High Concern
Abkürzungen und Akronyme siehe Verzeichnis unter http://abk.esdscom.eu

Classification of mixtures and assessment method used according to Regulation (EC) No 1272/2008 [CLP].

Classification	Classification procedure
Skin Corr. 1; H314	Based on test data
Eye Dam. 1; H318	Based on test data

Wording of H and EUH phrases (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 severe eye irritation.
H332	Harmful by inhalation.

Further information

The information provided is based on our current knowledge, but does not constitute a warranty of product characteristics and do not establish a contractual legal relationship. Existing laws and regulations.The recipient of our products is responsible for complying with existing laws and regulations.

(The data of the hazardous ingredients were taken from the latest safety data sheet of the supplier.)