

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Bio-Universalreiniger Art. 60 1161, 60 1160

Revision date: 26.01.2021

Product code: 127_1

Page 1 of 12

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Bio-Universalreiniger Art. 60 1161, 60 1160

Abbreviation: 127

1.2. Relevant identified uses of the substance or mixture and uses advised against**Use of the substance/mixture**

Washing and cleaning products (including solvent based products)

1.3. Details of the supplier of the safety data sheet

Company name: Karnasch Professional
Tools GmbH
Street: Siemensstr. 1
Place: D-68542 Heddeshheim
Telephone: +49 (0) 62 03 / 40 39 - 0 Telefax: +49 (0) 6203 4159 - 0
e-mail: info@karnasch.tools
Contact person: Volker Mayer, Sascha Riedel
Internet: www.karnasch.tools
Responsible Department: Volker Mayer, Sascha Riedel:
Tel: 06203 / 4039 - 0
Tel: 033675 / 7265 - 0

1.4. Emergency telephone number:

Emergency telephone number (24h) + 44 1235 239670 (en)

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Dam. 1

Hazard Statements:

Causes skin irritation.

Causes serious eye damage.

2.2. Label elements**Regulation (EC) No. 1272/2008****Hazard components for labelling**

disodium metasilicate, C6 Alkylglucosid

Signal word: Danger

Pictograms:**Hazard statements**

H315 Causes skin irritation.

H318 Causes serious eye damage.

Precautionary statements

P501 Dispose of contents/container to an appropriate recycling or disposal facility.

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

P362+P364 Take off contaminated clothing and wash it before reuse.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Bio-Universalreiniger Art. 60 1161, 60 1160

Revision date: 26.01.2021

Product code: 127_1

Page 2 of 12

P332+P313 If skin irritation occurs: Get medical advice/attention.
 P302+P352 IF ON SKIN: Wash with plenty of soap and water.
 P310 Immediately call a POISON CENTER/doctor.
 P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
 P264 Wash hands thoroughly after handling.

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			
6834-92-0	disodium metasilicate			1-5 %
	229-912-9	014-010-00-8	01-2119449811-37	
	Skin Corr. 1B, Eye Dam. 1, STOT SE 3; H314 H318 H335			
111-76-2	Butylglykol (Monobutylglykoether)			1-5 %
	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			
26468-86-0	2-Ethylhexanoethoxlat			1-5 %
	Eye Irrit. 2; H319			
54549-24-5	C6 Alkylglucosid			1-5 %
	259-217-6		01-2119492545-29	
	Eye Dam. 1; H318			

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

Further Information

5-10 % non-ionic surfactants

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In all cases of doubt, or when symptoms persist, seek medical advice.

After inhalation

Provide fresh air. Move victim to fresh air. Put victim at rest and keep warm.

After contact with skin

After contact with skin, wash immediately with: Water. Change contaminated clothing.

Rub greasy ointment into the skin.

If skin irritation occurs: Get medical advice/attention.

After contact with eyes

If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.

After ingestion

Rinse mouth immediately and drink plenty of water. Call a physician immediately.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Bio-Universalreiniger Art. 60 1161, 60 1160

Revision date: 26.01.2021

Product code: 127_1

Page 3 of 12

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

Causes skin irritation. Causes serious eye irritation.

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.

Suitable extinguishing media: Water. Foam. Extinguishing powder. Carbon dioxide (CO₂). Sand. Nitrogen.**Unsuitable extinguishing media**

High power water jet.

5.2. Special hazards arising from the substance or mixtureIn case of fire may be liberated: Carbon dioxide (CO₂). Sulfur oxides. Carbon monoxide**5.3. Advice for firefighters**

Do not inhale explosion and combustion gases. Wear a self-contained breathing apparatus and chemical protective clothing. Use water spray jet to protect personnel and to cool endangered containers.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Special danger of slipping by leaking/spilling product.

Do not breathe gas/fumes/vapour/spray. Use personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers).

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Suitable material for taking up: Sand, Universal binding agent. Treat the recovered material as prescribed in the section on waste disposal. Clean contaminated articles and floor according to the environmental legislation.

6.4. Reference to other sections

See protective measures under point 7 and 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.

When using do not eat, drink or smoke.

Keep container tightly closed.

Keep/Store only in original container. Protect against: frost.

Advice on protection against fire and explosion

Prevent access by unauthorised personnel. Usual measures for fire prevention.

Further information on handling

High slip hazard because of leaking or spilled product.

7.2. Conditions for safe storage, including any incompatibilities

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Bio-Universalreiniger Art. 60 1161, 60 1160

Revision date: 26.01.2021

Product code: 127_1

Page 4 of 12

Requirements for storage rooms and vessels

Keep container tightly closed. Keep the packing dry and well sealed to prevent contamination and absorption of humidity.

Recommended storage temperature: 5-40 °C

Maximum period of storage (time): 1 year

Hints on joint storage

Keep away from food, drink and animal feedingstuffs.

Do not store with strong oxidizing agents.

Further information on storage conditions

Protect from sunlight. Store in a well-ventilated place.

7.3. Specific end use(s)

Washing and cleaning products (including solvent based products)

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
111-76-2	2-Butoxyethanol	25	123		TWA (8 h)	WEL
		50	246		STEL (15 min)	WEL

Biological Monitoring Guidance Values (EH40)

CAS No	Substance	Parameter	Value	Test material	Sampling time
111-76-2	2-Butoxyethanol	butoxyacetic acid (creatinine)	240 mmol/mol	urine	Post shift

according to Regulation (EC) No 1907/2006

Bio-Universalreiniger Art. 60 1161, 60 1160

Revision date: 26.01.2021

Product code: 127_1

Page 5 of 12

DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
6834-92-0	disodium metasilicate			
Worker DNEL, long-term		inhalation	systemic	6,22 mg/m ³
Worker DNEL, long-term		dermal	systemic	1,49 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	1,55 mg/m ³
Consumer DNEL, long-term		dermal	systemic	0,74 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0,74 mg/kg bw/day
111-76-2	Butylglykol (Monobutylglykolether)			
Worker DNEL, long-term		inhalation	systemic	98 mg/m ³
Worker DNEL, acute		inhalation	systemic	663 mg/m ³
Worker DNEL, acute		inhalation	local	246 mg/m ³
Worker DNEL, long-term		dermal	systemic	75 mg/kg bw/day
Worker DNEL, acute		dermal	systemic	89 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	49 mg/m ³
Consumer DNEL, acute		inhalation	systemic	426 mg/m ³
Consumer DNEL, acute		inhalation	local	123 mg/m ³
Consumer DNEL, long-term		dermal	systemic	38 mg/kg bw/day
Consumer DNEL, acute		dermal	systemic	44,5 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	3,2 mg/kg bw/day
Consumer DNEL, acute		oral	systemic	13,4
54549-24-5	C6 Alkylglucosid			
Worker DNEL, long-term		dermal	systemic	595000 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	420 mg/m ³
Consumer DNEL, long-term		dermal	systemic	357000 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	124 mg/m ³
Consumer DNEL, long-term		oral	systemic	35,7 mg/kg bw/day

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Bio-Universalreiniger Art. 60 1161, 60 1160

Revision date: 26.01.2021

Product code: 127_1

Page 6 of 12

PNEC values

CAS No	Substance	Value
Environmental compartment		
6834-92-0	disodium metasilicate	
Freshwater		7,5 mg/l
Marine water		1 mg/l
111-76-2	Butylglykol (Monobutylglykoether)	
Freshwater		8,8 mg/l
Marine water		0,88 mg/l
Freshwater sediment		34,6 mg/kg
Marine sediment		3,46 mg/kg
Soil		2,8 mg/kg
54549-24-5	C6 Alkylglucosid	
Freshwater		0,176 mg/l
Marine water		0,018 mg/l
Freshwater sediment		0,722 mg/kg
Marine sediment		0,072 mg/kg
Soil		0,654 mg/kg

8.2. Exposure controls



Appropriate engineering controls

If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

Protective and hygiene measures

Change contaminated clothing. Wash hands before breaks and after work. Use personal protection equipment as per Directive 89/686/EEC.

Do not put any product-impregnated cleaning rags into your trouser pockets. Avoid contact with skin, eyes and clothes.

Eye/face protection

Use glasses or face shield if there is a risk of splashing.

Suitable eye protection: EN 166

Hand protection

Protect skin by using skin protective cream.

Wash hands before breaks and after work.

Gloves of appropriate material (i.e. nitrilic rubber, specification: penetration time: level 6, >480 min., thickness 0,9-1 mm; CE-certified acc. EN 374 cat III)

Skin protection

Chemical resistant safety shoes.

Take off immediately all contaminated clothing.

Thorough skin-cleansing after handling the product.

Set out skin protection guidelines.

Respiratory protection

In case of inadequate ventilation wear respiratory protection. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Use only respiratory protection equipment with

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Bio-Universalreiniger Art. 60 1161, 60 1160

Revision date: 26.01.2021

Product code: 127_1

Page 7 of 12

CE-symbol including four digit test number.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state:	liquid
Colour:	red
Odour:	characteristic

pH-Value (at 20 °C):

Test method
11,4 DIN 51369**Changes in the physical state**

Melting point:	not determined
Initial boiling point and boiling range:	not determined
Flash point:	> 80 °C
Density (at 20 °C):	1,029 g/cm ³
Water solubility:	easily soluble
Viscosity / kinematic: (at 20 °C)	not determined

9.2. Other information

No information available.

SECTION 10: Stability and reactivity**10.1. Reactivity**

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

frost. Protect against: heat.

10.5. Incompatible materials

The following must be prevented: Acids

10.6. Hazardous decomposition products

No information available.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****ATEmix calculated**

ATE (oral) 1615,5 mg/kg

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Bio-Universalreiniger Art. 60 1161, 60 1160

Revision date: 26.01.2021

Product code: 127_1

Page 8 of 12

Acute toxicity

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
6834-92-0	disodium metasilicate				
	oral	LD50 1349 mg/kg	rat		
	dermal	LD50 >5000 mg/kg	rat		
	inhalation (4 h) vapour	LC50 > 2,06 mg/l	Rat		
111-76-2	Butylglykol (Monobutylglykoether)				
	oral	LD50 1250-1490 mg/kg	Rat		OECD 401
	dermal	LD50 1100 mg/kg	Rab		OECD 402
	inhalation (4 h) vapour	LC50 11 mg/l	Rat		
	inhalation aerosol	ATE 1,5 mg/l			
54549-24-5	C6 Alkylglucosid				
	oral	LD50 > 2000 mg/kg	Rat		
	dermal	LD50 > 2000 mg/kg	Rabbit		

Additional information on tests

No risks worthy of mention. Practical experience.

The statement is derived from the properties of the single components.

The classification was undertaken in accordance with the calculation method governed by the Preparations Directive (1999/45/EC).

Practical experience

Other observations

Has de-greasing effect on the skin.

SECTION 12: Ecological information

12.1. Toxicity

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

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Bio-Universalreiniger Art. 60 1161, 60 1160

Revision date: 26.01.2021

Product code: 127_1

Page 9 of 12

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
6834-92-0	disodium metasilicate					
	Acute fish toxicity	LC50 mg/l	2320	96 h	Fische	
	Acute crustacea toxicity	EC50 mg/l	1700	48 h	Wasserfloh	OECD 202
	Acute bacteria toxicity	(> 100 mg/l)			Bakterien	
111-76-2	Butylglykol (Monobutylglykoether)					
	Acute fish toxicity	LC50 mg/l	1474	96 h	Regenbogenforelle	OECD 203
	Acute algae toxicity	ErC50 mg/l	1550	72 h	Pseudokirchneriellasu bcapitata	
	Acute crustacea toxicity	EC50 mg/l	1550	48 h	Daphnia Magna	DIN 38412
	Fish toxicity	NOEC mg/l	> 100	21 d	Zebrabärtling	OECD 204
	Algae toxicity	NOEC	289 mg/l	72 d	Algen	OECD 201
	Crustacea toxicity	NOEC	100 mg/l	21 d	Daphnia magna	OECD 211
54549-24-5	C6 Alkylglucosid					
	Acute fish toxicity	LC50 mg/l	> 100	96 h	Oncorhynchus mykiss	
	Acute algae toxicity	ErC50 mg/l	> 100	72 h	Scenedesmus quadricauda	
	Acute crustacea toxicity	EC50 mg/l	> 100	48 h	Daphnia Magna	
	Algae toxicity	NOEC mg/l	> 100	72 d		

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
54549-24-5	C6 Alkylglucosid	1,75

12.4. Mobility in soil

in delivery condition: liquid

12.5. Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

12.6. Other adverse effects

Avoid release to the environment.

Further information

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.

according to Regulation (EC) No 1907/2006

Bio-Universalreiniger Art. 60 1161, 60 1160

Revision date: 26.01.2021

Product code: 127_1

Page 10 of 12

Completely emptied packings can be re-cycled. Dispose of waste according to applicable legislation.

List of Wastes Code - residues/unused products

070601 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; aqueous washing liquids and mother liquors; hazardous waste

List of Wastes Code - used product

070601 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; aqueous washing liquids and mother liquors; hazardous waste

List of Wastes Code - contaminated packaging

150102 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); plastic packaging

Contaminated packaging

Empty container completely. Keep labels on container. Recommended cleaning agent: water

SECTION 14: Transport information

Land transport (ADR/RID)

- 14.1. UN number:** No dangerous good in sense of these transport regulations.
- 14.2. UN proper shipping name:** No dangerous good in sense of these transport regulations.
- 14.3. Transport hazard class(es):** No dangerous good in sense of these transport regulations.
- 14.4. Packing group:** No dangerous good in sense of these transport regulations.

Other applicable information (land transport)

Not restricted

Inland waterways transport (ADN)

- 14.1. UN number:** No dangerous good in sense of these transport regulations.
- 14.2. UN proper shipping name:** No dangerous good in sense of these transport regulations.
- 14.3. Transport hazard class(es):** No dangerous good in sense of these transport regulations.
- 14.4. Packing group:** No dangerous good in sense of these transport regulations.

Other applicable information (inland waterways transport)

Not restricted

Marine transport (IMDG)

- 14.1. UN number:** No dangerous good in sense of these transport regulations.
- 14.2. UN proper shipping name:** No dangerous good in sense of these transport regulations.
- 14.3. Transport hazard class(es):** No dangerous good in sense of these transport regulations.
- 14.4. Packing group:** -

Other applicable information (marine transport)

Not restricted

Air transport (ICAO-TI/IATA-DGR)

- 14.1. UN number:** No dangerous good in sense of these transport regulations.
- 14.2. UN proper shipping name:** No dangerous good in sense of these transport regulations.
- 14.3. Transport hazard class(es):** No dangerous good in sense of these transport regulations.
- 14.4. Packing group:** -

Other applicable information (air transport)

Not restricted

14.5. Environmental hazards

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Bio-Universalreiniger Art. 60 1161, 60 1160

Revision date: 26.01.2021

Product code: 127_1

Page 11 of 12

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

Personal protection equipment: see section 8

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

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): 4,91 % (50,278 g/l)

2004/42/EC (VOC): 4,91 % (50,278 g/l)

Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

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): 1 - slightly hazardous to water

15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information**Changes**

This data sheet contains changes from the previous version in section(s): 1,2,3,4,7,8,9,10,11,12,15.

AICS (Australien), DSL (Kanada), IECSC (China), REACH (Europäische Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (Neuseeland), PICCS (Philippinen), TSCA (USA)

Abbreviations and acronyms

Repr. - Reproduktionstoxizität

Asp. Tox. - Aspirationstoxizität

Acute Tox. - Akute Toxizität

Aquatic Acute - Akute aquatische Toxizität

Aquatic Chronic - Chronische aquatische Toxizität

Eye Dam. - Augenschaden/-reizung

Eye Irrit. - Augenreizung

Skin Corr. - Ätzwirkung auf die Haut

Skin Irrit. - Hautreizung

Skin Sens. - Hautallergen

Resp. Sens. - Inhalationsallergen

STOT SE - Spezifische Zielorgan-Toxizität - einmalige Exposition

STOT RE - Spezifische Zielorgan-Toxizität - wiederholte Exposition

VOC - Flüchtige organische Verbindungen

Relevant H and EUH statements (number and full text)

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.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Bio-Universalreiniger Art. 60 1161, 60 1160

Revision date: 26.01.2021

Product code: 127_1

Page 12 of 12

H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.

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