

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

Universal Cleaner 5 I for High-Pressure Cleaners and Ultrasonic Cleaner (BGS 9380)
Article number: 9380

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

Cleaning agent

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company BGS technic KG
 Bandwirkerstr. 3
 42929 Wermelskirchen / GERMANY
 Phone +49 (0)2196 72048-0
 Fax +49 (0)2196 72048-20
 Homepage www.bgstechnic.com
 E-mail mail@bgs-technic.de

Address enquiries to

Technical information mail@bgs-technic.de

Safety Data Sheet sdb@chemiebuero.de

1.4 Emergency telephone number

Advisory body +49 (0)89-19240 (24h) (English)

SECTION 2: Hazards identification
2.1 Classification of the substance or mixture [REGULATION (GB) CLP]

No classification.

2.2 Label elements

The product is required to be labelled in accordance with regulation CLP.

Hazard pictograms none

Signal word none

Hazard statements none

Precautionary statements none

Special labelling EUH210 Safety data sheet available on request.

Contains: (R)-p-Mentha-1,8-diene, Citral. EUH208 May produce an allergic reaction.

Cleaner, 648/2004/CE, contains:
 < 5% phosphates
 < 5% non-ionic surfactants
 perfumes LIMONENE
 perfumes CITRAL
 perfumes

2.3 Other hazards

Human health dangers May cause irritation of eye and skin.

Environmental hazards Does not contain any PBT or vPvB substances.

Other hazards Further hazards were not determined with the current level of knowledge.

SECTION 3: Composition / Information on ingredients

3.1 Substances

not applicable

3.2 Mixtures

The product is a mixture.

Range [%]	Substance
2.5 - < 10	2-Butoxyethanol CAS: 111-76-2, EINECS/ELINCS: 203-905-0, EU-INDEX: 603-014-00-0 GHS/CLP: Acute Tox. 4: H302 H312 H332 - Skin Irrit. 2: H315 - Eye Irrit. 2: H319
< 1	(R)-p-Mentha-1,8-diene CAS: 5989-27-5, EINECS/ELINCS: 227-813-5, EU-INDEX: 601-096-00-2, Reg-No.: 01-2119529223-47-XXXX GHS/CLP: Flam. Liq. 3: H226 - Asp. Tox. 1: H304 - Skin Irrit. 2: H315 - Skin Sens. 1: H317 - Aquatic Acute 1: H400 - Aquatic Chronic 3: H412, M-Factor (acute): 1
< 1	Citral CAS: 5392-40-5, EINECS/ELINCS: 226-394-6, EU-INDEX: 605-019-00-3, Reg-No.: 01-2119462829-23-XXXX GHS/CLP: Skin Irrit. 2: H315 - Skin Sens. 1: H317

Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.
For full text of H-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Change soaked clothing.

Inhalation

Ensure supply of fresh air.

Skin contact

When in contact with the skin, clean with soap and water.
Consult a doctor if skin irritation persists.

Eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.

Ingestion

Rinse out mouth and give plenty of water to drink.
Seek medical advice.

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: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Product itself is non-combustible. Fire extinguishing method of surrounding areas must be considered.

Extinguishing media that must not be used

Full water jet

5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.

5.3 Advice for firefighters

Use self-contained breathing apparatus.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective clothing.
High risk of slipping due to leakage/spillage of product.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up

Take up with absorbent material (e.g. general-purpose binder).
Dispose of absorbed material in accordance with the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with eyes and skin.

Wash face and/or hands before break and end of work.
Do not eat, drink or smoke when using this product.
Take off contaminated clothing and wash before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Prevent penetration into the ground.
Do not store together with food and animal food/diet.
Keep container tightly closed.

7.3 Specific end use(s)

See product use, SECTION 1.2

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

Substance
2-Butoxyethanol
CAS: 111-76-2, EINECS/ELINCS: 203-905-0, EU-INDEX: 603-014-00-0
Long-term exposure: 25 ppm, 123 mg/m ³ , Sk, BMGV
Short-term exposure (15-minute): 50 ppm, 246 mg/m ³

Ingredients with occupational exposure limits to be monitored (EU)

Substance / EC LIMIT VALUES
2-Butoxyethanol
CAS: 111-76-2, EINECS/ELINCS: 203-905-0, EU-INDEX: 603-014-00-0
Eight hours: 20 ppm, 98 mg/m ³ , H
Short-term (15-minute): 50 ppm, 246 mg/m ³

DNEL

Substance
Citral, CAS: 5392-40-5
Industrial, dermal, Long-term - local effects, 140 µg/cm ²
Industrial, dermal, Long-term - systemic effects, 1.7 mg/kg bw/day
Industrial, inhalative, Long-term - systemic effects, 9 mg/m ³
general population, oral, Long-term - local effects, 600 µg/kg bw/day
general population, dermal, Long-term - local effects, 140 µg/cm ²
general population, dermal, Long-term - systemic effects, 1 mg/kg bw/day
general population, inhalative, Long-term - systemic effects, 2.7 mg/m ³
(R)-p-Mentha-1,8-diene, CAS: 5989-27-5
Industrial, dermal, Long-term - systemic effects, 9.5 mg/kg bw/day
Industrial, inhalative, Long-term - systemic effects, 66.7 mg/m ³
general population, oral, Long-term - systemic effects, 4.8 mg/kg bw/day
general population, dermal, Long-term - systemic effects, 4.8 mg/kg bw/day
general population, inhalative, Long-term - systemic effects, 16.6 mg/m ³

PNEC

Substance
Citral, CAS: 5392-40-5
seawater, 12.5 µg/kg sediment dw
sediment (freshwater), 125 µg/kg sediment dw
sewage treatment plants (STP), 1.6 mg/L
seawater, 678 ng/L
freshwater, 6.78 µg/L
(R)-p-Mentha-1,8-diene, CAS: 5989-27-5
oral (food), 133 mg/kg food
soil, 0.763 mg/kg soil dw
sewage treatment plants (STP), 1.8 mg/L
seawater, 1.4 µg/L
freshwater, 14 µg/L

sediment (seawater), 0.385 mg/kg sediment dw

sediment (freshwater), 3.85 mg/kg sediment dw

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation.
Eye protection	If there is a risk of splashing: safety glasses (EN 166:2001)
Hand protection	0.4 mm; Nitrile rubber, >480 min (EN 374-1/-2/-3). The details concerned are recommendations. Please contact the glove supplier for further information.
Skin protection	light protective clothing
Other	Avoid contact with eyes and skin.
Respiratory protection	No special measures necessary.
Thermal hazards	See SECTION 7.
Delimitation and monitoring of the environmental exposition	Protect the environment by applying appropriate control measures to prevent or limit emissions.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Color	yellowish
Odor	citrus
Odour threshold	not applicable
pH-value	10
pH-value [1%]	not determined
Boiling point [°C]	100
Flash point [°C]	> 60
Flammability (solid, gas) [°C]	not applicable
Lower explosion limit	not determined
Upper explosion limit	not determined
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	2.3
Density [g/cm³]	0.9765 - 0.987 (20 °C / 68,0 °F)
Relative density	not determined
Bulk density [kg/m³]	not applicable
Solubility in water	completely miscible
Solubility other solvents	No information available.
Partition coefficient [n-octanol/water]	not determined
Kinematic viscosity	21 s (DIN 53211/4)
Relative vapour density	not determined
Evaporation speed	not determined
Melting point [°C]	not determined
Auto-ignition temperature	240
Decomposition temperature [°C]	not determined
Particle characteristics	not applicable

9.2 Other information

Solids content: 3.5 %
89.9 % Water:

SECTION 10: Stability and reactivity

10.1 Reactivity

See SECTION 10.3.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known.

10.4 Conditions to avoid

Strong heating.

10.5 Incompatible materials

See SECTION 10.3.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information
11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
Acute oral toxicity

Product
oral, Based on the available information, the classification criteria are not fulfilled.
Substance
2-Butoxyethanol, CAS: 111-76-2
LD50, oral, Guinea pig, 1400 mg/kg
LD10, oral, Rat, 1300 mg/kg
Citral, CAS: 5392-40-5
LD50, oral, Rat, 6 800 mg/kg bw
(R)-p-Mentha-1,8-diene, CAS: 5989-27-5
LD50, oral, Rat, > 2000 mg/kg

Acute dermal toxicity

Product
dermal, Based on the available information, the classification criteria are not fulfilled.
Substance
2-Butoxyethanol, CAS: 111-76-2
LD50, dermal, Rat, 2270 mg/kg
LD50, dermal, Guinea pig, > 2000 mg/kg
Citral, CAS: 5392-40-5
LD50, dermal, Rat, 2 000 mg/kg bw
(R)-p-Mentha-1,8-diene, CAS: 5989-27-5
LD50, dermal, Rat, > 5000 mg/kg

Acute inhalational toxicity

Product
inhalative, Based on the available information, the classification criteria are not fulfilled.
Substance
2-Butoxyethanol, CAS: 111-76-2
LC50, inhalation (vapour), Rat, 700 ppm/7h
LC0, inhalative, Guinea pig, > 3.1 mg/l/1h

Serious eye damage/irritation

Based on the available information, the classification criteria are not fulfilled.

Substance
2-Butoxyethanol, CAS: 111-76-2
irritant

Skin corrosion/irritation

Based on the available information, the classification criteria are not fulfilled.

Substance
2-Butoxyethanol, CAS: 111-76-2
irritant

Respiratory or skin sensitisation Based on the available information, the classification criteria are not fulfilled.

Substance
2-Butoxyethanol, CAS: 111-76-2
no adverse effect observed
(R)-p-Mentha-1,8-diene, CAS: 5989-27-5
dermal, sensitising

Specific target organ toxicity — single exposure Based on the available information, the classification criteria are not fulfilled.

Specific target organ toxicity — repeated exposure Based on the available information, the classification criteria are not fulfilled.

Substance
(R)-p-Mentha-1,8-diene, CAS: 5989-27-5
LOAEL, oral, Dog, 1000 mg/kg bw/day (subchronic), no adverse effect observed

Mutagenicity Based on the available information, the classification criteria are not fulfilled.

Substance
2-Butoxyethanol, CAS: 111-76-2
Chinese hamster, OECD 473, negativ
in vitro gene mutation study in bacteria, OECD 471, negativ

Reproduction toxicity Based on the available information, the classification criteria are not fulfilled.

Substance
2-Butoxyethanol, CAS: 111-76-2
OECD 409, no adverse effect observed
(R)-p-Mentha-1,8-diene, CAS: 5989-27-5
oral, Rat, 591 mg/kg bw/day (subacute), no adverse effect observed

Carcinogenicity Based on the available information, the classification criteria are not fulfilled.

Substance
2-Butoxyethanol, CAS: 111-76-2
NOAEC, inhalative, mouse, 125 mg/m ³

Aspiration hazard Based on the available information, the classification criteria are not fulfilled.

General remarks

Toxicological data of complete product are not available.

11.2 Information on other hazards

Endocrine disrupting properties Contains no ingredients with endocrine-disrupting properties.

Other information none

SECTION 12: Ecological information

12.1 Toxicity

Substance
2-Butoxyethanol, CAS: 111-76-2
LC50, (96h), 5.4 mg/l (Palaemonetes pugio)
LC50, Daphnia magna, 835 mg/l
LC50, (96h), Oncorhynchus mykiss, 1700 mg/l
LC50, (96h), Lepomis macrochirus, 820-1490 mg/l
EC50, (72h), Pseudokirchneriella subcapitata, 911 mg/l
Citral, CAS: 5392-40-5
LC50, (96h), fish, 6.78 mg/L
EC50, (72h), Algae, 103.84 mg/L
EC50, (48h), Invertebrates, 6.8 mg/L
(R)-p-Mentha-1,8-diene, CAS: 5989-27-5
LC50, (4d), fish, 0.46 - 0.72 mg/L

12.2 Persistence and degradability

Behaviour in environment compartments	No information available.
Behaviour in sewage plant	No information available.
Biological degradability	The product fulfills the requirements of the wash and cleaning agent act. Intended the materials of the preparation arrive after use into the environment.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

Spillages may penetrate the soil causing ground water contamination.

12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

12.6 Endocrine disrupting properties

Contains no ingredients with endocrine-disrupting properties.

12.7 Other adverse effects

Do not discharge product unmonitored into the environment or into the drainage.
Ecological data of complete product are not available.

SECTION 13: Disposal considerations
13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

Coordinate disposal with the disposal contractor/authorities if necessary.

Waste no. (recommended)

200130 detergents other than those mentioned in 20 01 29

Contaminated packaging

Packaging that cannot be cleaned should be disposed of as for product.

Waste no. (recommended)

150102

SECTION 14: Transport information
14.1 UN number or ID number

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

14.2 UN proper shipping name

Transport by land according to ADR/RID NO DANGEROUS GOODS

Inland navigation (ADN) NO DANGEROUS GOODS

Marine transport in accordance with IMDG NOT CLASSIFIED AS "DANGEROUS GOODS"

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

14.3 Transport hazard class(es)

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

14.4 Packing group

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

14.5 Environmental hazards

Transport by land according to ADR/RID no

Inland navigation (ADN) no

Marine transport in accordance with IMDG no

Air transport in accordance with IATA no

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

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**

EEC-REGULATIONS 2008/98/EC 2000/532/EC; 2010/75/EU; 2004/42/EC; (EC) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EEC ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 517/2014

TRANSPORT-REGULATIONS ADR (2021); IMDG-Code (2021, 40. Amdt.); IATA-DGR (2022)

NATIONAL REGULATIONS (GB): EH40/2005 Workplace exposure limits (Second edition, published December 2011); UK REACH; GB CLP.

- Observe employment restrictions for people no

- VOC (2010/75/CE) 6,5 %

15.2 Chemical safety assessment**SECTION 16: Other information****16.1 Hazard statements (SECTION 3)**

H412 Harmful to aquatic life with long lasting effects.

H400 Very toxic to aquatic life.

H304 May be fatal if swallowed and enters airways.

H226 Flammable liquid and vapour.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H315 Causes skin irritation.

H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.

16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
 RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
 ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
 ATE = acute toxicity estimate
 CAS = Chemical Abstracts Service
 CLP = Classification, Labelling and Packaging
 DMEL = Derived Minimum Effect Level
 DNEL = Derived No Effect Level
 EC50 = Median effective concentration
 ECB = European Chemicals Bureau
 EEC = European Economic Community
 EINECS = European Inventory of Existing Commercial Chemical Substances
 EL50 = Median effective loading
 ELINCS = European List of Notified Chemical Substances
 EmS = Emergency Schedules
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals
 IATA = International Air Transport Association
 IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
 IC50 = Inhibition concentration, 50%
 IMDG = International Maritime Code for Dangerous Goods
 IUCLID = International Uniform Chemical Information Database
 IVIS = In vitro irritation score
 LC50 = Lethal concentration, 50%
 LD50 = Median lethal dose
 LC0 = lethal concentration, 0%
 LOAEL = lowest-observed-adverse-effect level
 LL50 = Median lethal loading
 LQ = Limited Quantities
 MARPOL = International Convention for the Prevention of Marine Pollution from Ships
 NOAEL = No Observed Adverse Effect Level
 NOEC = No Observed Effect Concentration
 PBT = Persistent, Bioaccumulative and Toxic substance
 PNEC = Predicted No-Effect Concentration
 REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
 STP = Sewage Treatment Plant
 TLV@TWA = Threshold limit value – time-weighted average
 TLV@STEL = Threshold limit value – short-time exposure limit
 VOC = Volatile Organic Compounds
 vPvB = very Persistent and very Bioaccumulative

16.3 Other information

Classification procedure

Modified position

none



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