

Safety data sheet

According to 1907/2006/EC

Date of compilation: 24.03.2021

bhs-industriebedarf.de

Rodalberstr. 79

66953 Pirmasens

Phone. +49 (0)6331-6080566

Mail: info@bhs-industriebedarf.de

product: bhs 1814/17

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

1.1 Product identifier

- bhs 1814/17

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

No further relevant information available.

- **Application of the substance/mixture**
Cleaning material/Detergent

1.3 Details of the supplier of the safety data sheet:

bhs-industriebedarf.de
Rodalber Straße 79
66953 Pirmasens
Fon: +49 (0)6331 6080566
Fax: +49 (0)6331 6080588
E-Mail: info@bhs-industriebedarf.de
Web: www.bhs-industriebedarf.de

1.4 Emergency telephone number:

Poison hotline: +49 (0)361 730730

SECTION 2: Hazards Identification

2.1 Classification of the substance or mixture:

- **Classification according to Regulation (EC) No 1272/2008**

Flam. Liq 2	H225	Flammable liquid and vapour
Skin Irrit. 2	H315	Causes skin irritation
Asp. Tox. 1	H304	May be fatal if swallowed and enters airways
Eye Irrit. 2	H319	Causes serious eye irritation
STOT SE 3	H336	May cause drowsiness or dizziness
Aquatic Acute 1	H400	Very toxic to aquatic life
Aquatic Chronic 1	H410	Very toxic to aquatic life with long lasting effects

2.2 Label elements

- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.

- **Signal word**
Danger
- **Hazard pictograms**



- **Hazard-determining components of labelling**

Cyclohexane
Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane
Acetone
Ethyl acetate

- **Hazard statements**

H225	Highly flammable liquid and vapour
H315	Causes skin irritation
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness
H304	May be fatal if swallowed and enters airways
H410	Very toxic to aquatic life with long lasting effects

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- Precautionary statements**

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P243	Take action to prevent static discharges
P261	Avoid breathing mist/vapours/spray
P273	Avoid release to the environment
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor
P331	Do NOT induce vomiting
P302+P352	IF ON SKIN: Wash with plenty of soap and water
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P403+P235	Store in a well-ventilated place. Keep cool
P501	Dispose of contents/container in accordance with local/regional/national/international regulations

- Additional information**

Product contains: Reportable explosives precursors. Making available, introduction, possession and use according to Regulation (EU) 2019/1148, Article 9.

2.3 Other hazards

- Results of PBT and vPvB assessment**

PBT: Not applicable
vPvB: Not applicable

SECTION 3: Composition/Information on ingredients

3.2 Mixtures

- Description**

Mixture of the substances listed below including additives not requiring identification

- Dangerous components**

CAS	Chemical name/Classification	Concentration
EC	INDEX	
REACH	Regulation 1272/2008	
110-82-7	cyclohexane	25 - 50%
203-806-2	601-017-00-1	
01-2119463273-41-XXXX	Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Asp. Tox. 1: H304; Flam. Liq. 2: H225; Skin Irrit. 2: H315; STOT SE 3: H336 - Danger	
67-64-1	acetone	25 - 50%
200-662-2	606-001-00-8	
01-2119471330-49-XXXX	Eye Irrit. 2: H319; Flam. Liq. 2: H225; STOT SE 3: H336; EUH066 - Danger	
-	Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane	≥10 - <25%
921-024-6	-	
01-2119475514-35-XXXX	Aquatic Chronic 2: H411; Asp. Tox. 1: H304; Flam. Liq. 2: H315; STOT SE 3: H336 - Danger	
141-78-6	Ethyl acetate	10 - 25%
205-500-4	607-022-00-5	
01-2119475103-46-XXXX	Eye Irrit. 2: H319; Flam. Liq. 2: H225; STOT SE 3: H336; EUH066 - Danger	

- Components according to Regulation EC 648/2004 on detergents**

Aliphatic hydrocarbons

≥15 - <30%

- Additional information**

For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General information**

Remove contaminated clothing immediately

- By inhalation**

Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In case of persistent symptoms consult doctor.

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- **By skin contact**
Wash intensively with water and soap. Use protective skin ointment. If skin irritation continues, consult a doctor.
- **By eye contact**
Keep eye lids open and rinse them with ample amounts of clean running water for at least 15 minutes. Seek medical treatment.
- **By ingestion/aspiration**
Do not induce vomiting in order to prevent an invasion into the lungs. Seek immediate medical advice.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

If swallowed or in case of vomiting, danger of entering the lungs.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- **Suitable extinguishing media**
Extinguishing powder, foam or water jet. Fight larger fires with water jet or alcohol-resistant foam.
- **Unsuitable extinguishing media**
Water with full water jet

5.2 Special hazards arising from the substance or mixture

Can form explosive gas-air-mixtures. During incomplete combustion carbon monoxide can be formed.

5.3 Advice for firefighters

- **Protective equipment**
Wear self-contained breathing apparatus
- **Additional information**
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. Collect contaminated fire fighting water separately. It must not enter drains. Provide sufficient fire fighting water retention.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.
Keep away from sources of ignition and care for sufficient ventilation due to the content of organic solvents.

6.2 Environmental precautions

Do not allow to enter pits and cellars.
Inform respective authorities in case product reaches water or sewage system.

6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders). Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents.

6.4 Reference to other sections

See section 7 for information on safe handling.
See section 8 for information on personal protection equipment.
See section 13 for information on disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).
Prevent formation of aerosols.
Avoid splashes or spray in enclosed areas.

- **Information about protection against explosion and fires**
Keep ignition sources away. Do not smoke.
Protect against electrostatic charges.
Use explosion-proof apparatus / fittings and spark-proof tools.
Vapours are heavier than air and may travel long distances along ground, ignite and flash back to source.

7.2 Conditions for safe storage, including any incompatibilities

Storage

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- **Requirements to be met by storerooms and containers**
Store cool and dry in well sealed containers.
Ensure sufficient ventilation.
- **Information about storage in one common storage facility**
Keep away from food, drink and animal feeding stuffs.
- **Further information about storage conditions**
Store in cool, dry conditions in well sealed containers.

7.3 Specific end use(s)

No further relevant information available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

- **Components with limit values that require monitoring at the workplace**

WEL: workplace exposure limit

OEL: Occupational Exposure Limit

Cyclohexane		CAS: 110-82-7	EC: 203-806-2
WEL	Short-term value	1050 mg/m ³ , 300 ppm	
	Long-term value	350 mg/m ³ , 100 ppm	
IOELV	Long-term value	700 mg/m ³ , 200 ppm	
OEL	Long-term value	700 mg/m ³ , 200 ppm	
Acetone		CAS: 67-64-1	EC: 200-662-2
WEL	Short-term value	3620 mg/m ³ , 1500 ppm	
	Long-term value	1210 mg/m ³ , 500 ppm	
IOELV	Long-term value	1210 mg/m ³ , 500 ppm	
OEL	Long-term value	1210 mg/m ³ , 500 ppm	
Ethyl acetate		CAS: 141-78-6	EC: 205-500-4
WEL	Short-term value	1468 mg/m ³ , 400 ppm	
	Long-term value	734 mg/m ³ , 200 ppm	
IOELV	Short-term value	1468 mg/m ³ , 400 ppm	
	Long-term value	734 mg/m ³ , 200 ppm	
OEL	Short-term value	1468 mg/m ³ , 400 ppm	
	Long-term value	734 mg/m ³ , 200 ppm	

- **DNEL**

CAS	Identification	
DNEL		exposure
110-82-7	Cyclohexane	
Consumer, long-term, systemic	Oral	59,4 mg/kg bw/day (human)
Worker, long-term, systemic	Dermal	2016 mg/kg bw/day (human)
Consumer, long-term, systemic	Dermal	1,186 mg/kg Bw/day (human)
Worker, short-term, systemic	Inhalation	700 mg/m ³ (human)
Worker, long-term, systemic	Inhalation	700 mg/m ³ (human)
Consumer, short-term, systemic	Inhalation	412 mg/m ³ (human)
Consumer, long-term, systemic	Inhalation	206 mg/m ³ (human)
Worker, short-term, local	Inhalation	700 mg/m ³ (human)
Worker, long-term, local	Inhalation	700 mg/m ³ (human)
Consumer, short-term, local	Inhalation	412 mg/m ³ (human)
Consumer, long-term, local	Inhalation	206 mg/m ³ (human)

- **PNEC-Werte**

CAS	Identification	
110-82-7	Cyclohexane	
Fresh water		0,207 mg/L
Marine water		0,207 mg/L
STP		3,24 mg/L
Soil		2,99 mg/kg soil dw
Sediment (Fresh water)		3,627 mg/kg sedim. Dw
Sediment (Marine water)		3,627 mg/kg sedim. Dw
Aqua (intermittent releases)		0,207 mg/L

- **Additional information**

The lists that were valid during the compilation were used as basis.

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8.2 Exposure controls

- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures**
Keep away from foodstuffs, beverages and food.
Take off all contaminated clothing immediately.
Wash hands during breaks and at the end of the work.
Avoid contact with the eyes and skin.
- **Breathing equipment**
In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.
- **Hand protection**
Due to missing tests no recommendation to the glove material can be given for the product/the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.
Material of gloves
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies manufacturer to manufacturer.
Penetration time of glove material
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
For the permanent contact gloves made of the following materials are suitable
Butyl rubber, BR
In case of a layer thickness of 0,7 mm the penetration time is longer than 30 minutes.
- **Eye/face protection**
Tightly sealed safety glasses
- **Body protection**
Solvent resistant protective clothing.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General information	
Colour	colourless
Odour	Benzen-like
Melting point/freezing point	Not determined
Boiling point or initial boiling point and boiling range	Not determined
Lower and upper explosion limit	
Lower	1,2 Vol %
Upper	13 Vol %
Flash point	Not determined
SADT	
Viscosity	
Kinematic viscosity	Not determined
dynamic	Not determined
Solubility	
water	<50 g/l
Vapour pressure	Not determined
Density and/or relative density	
Density	Not determined
Relative density	0,77

9.2 Other Information

- **Information with regard to physical hazard classes**

Appearance	
Form	Fluid
Important information on protection of health and environment, and on safety	
Ignition temperatures	>200°C
Explosive properties	Product is not explosive. However, formation of explosive air/steam mixtures is possible
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Highly flammable liquid and vapour
Flammable solids	Void

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Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

SECTION 10: Stability and reactivity

10.1 Reactivity

No further relevant information available.

10.2 Chemical stability

- **Thermal decomposition/conditions to be avoided**
No decomposition if used according to specifications

10.3 Possibility of hazardous reactions

No dangerous reactions known

10.4 Conditions to avoid

No further relevant information available

10.5 Incompatible materials

No further relevant information available

10.6 Hazardous decomposition products

None in case of intended use and storage in compliance with instructions.

SECTION 11: Toxicological Information

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

The experimental information related to the toxicological properties of the product itself is not available.

- **Acute toxicity**
Based on available data, the classification criteria are not met.
- **LD/LC50 values that are relevant for classification**

110-82-7	cyclohexane	
Oral	LD50	>5,000 mg/kg (rat) (OECD 401)
Dermal	LD50	>2,000 mg/kg (rabbit) (OECD 402)
Inhalative	LC50	>32.88 mg/l/4h (rat) (OECD 403) Vapour

- **Skin corrosion/irritation**
Longer or repeated contact with the product reduces the natural readipogenesis of the skin and results in the desiccation of the skin. That product can be absorbed via the skin.
- **Serious eye damage/irritation**
Causes serious eye irritation
- **Respiratory or skin sensitisation**
Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity**
Based on available data, the classification criteria are not met.
- **Carcinogenicity**
Based on available data, the classification criteria not met.
- **Reproductive toxicity**
Based on available data, the classification criteria are not met.
- **STOT-single exposure**
May cause drowsiness or dizziness
- **STOT-repeated exposure**
Based on available data, the classification criteria are not met.
- **Aspiration hazard**
May be fatal if swallowed and enters airways

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- **Additional toxicological information**

Repeated dose toxicity

110-82-7	cyclohexane	
Inhalative	NOAEC (90d)	6,880 mg/m ³ (mouse) (EPA OPPTS 870.3465) 24,080 mg/m ³ (rat) (EPA OPPTS 870.3465)

11.2 Information on other hazards

- **Endocrine disrupting properties**
None of the ingredients is listed.

SECTION 12: Ecological information

The experimental information related to the eco-toxicological properties of the product itself not available

12.1 Toxicity

- **Aquatic toxicity**

Identification			
Cyclohexane	EC50 (static)	2,4 mg/l/48h	Daphnia magna
	LC50 (dynamic)	4,53 mg/l/96h	Pimephales promelas
	EC50	3,4 mg/l/72h	Pseudokirchneriella subcapitata

12.2 Persistence and degradability

No further relevant information available.

12.3 Bioaccumulative potential

No further relevant information available.

12.4 Mobility in soil

No further relevant information available

12.5 Results of PBT and vPvB assessment

PBT: Not applicable
vPvB: Not applicable

12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties

12.7 Other adverse effects

- **Additional ecological information**

General notes

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
Do not allow product to reach ground water, water bodies or sewage system
Danger to drinking water if even small quantities leak into soil

SECTION 13: Disposal considerations

13.1 Waste treatment methods

- **Recommendation**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings**
Recommendation
Dispose of packaging according to regulations on the disposal of packagings.
Packaging can be reused or recycled after cleaning.
Cleaned packing materials have to be admitted to local recycling circuits.

SECTION 14: Transport information

14.1 UN number or ID number

UN 1993

14.2 UN proper shipping name

ADR (by land): ADHESIVES, flammable liquid
RID (by land): ADHESIVES, flammable liquid
IMDG (by sea): ADHESIVES, flammable liquid

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IATA/ICAO (by air):	ADHESIVES																	
14.3 Transport hazard classes																		
ADR:	3																	
RID:	3																	
IMDG:	3																	
IATA/ICAO:	3																	
14.4 Packing group																		
ADR:	II																	
RID:	II																	
IMDG:	II																	
IATA/ICAO:	II																	
14.5 Marine pollutant																		
ADR:	Yes																	
RID:	Yes																	
IMDG:	Yes																	
IATA/ICAO:	Yes																	
14.6 Special precautions for user																		
Warning – Flammable liquids																		
• Kemler Number 33																		
• EMS Number F-E, S-E																		
• Stowage Category B																		
14.7 Maritime transport in bulk according to IMO instruments																		
Non-applicable																		
• Transport/Additional information																		
<table border="1"><tr><td colspan="2">ADR/ADN</td></tr><tr><td>Limited quantities (LQ)</td><td>1L</td></tr><tr><td>Excepted quantities (EQ)</td><td>Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml</td></tr><tr><td>Transport category</td><td>2</td></tr><tr><td>Tunnel restriction code</td><td>D/E</td></tr><tr><td colspan="2">IMDG</td></tr><tr><td>Limited quantities (LQ)</td><td>5L</td></tr><tr><td>Excepted quantities (EQ)</td><td>Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml</td></tr></table>			ADR/ADN		Limited quantities (LQ)	1L	Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml	Transport category	2	Tunnel restriction code	D/E	IMDG		Limited quantities (LQ)	5L	Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
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• UN „Model Regulation“ UN 1993, Flammable Liquid, N.O.S., Special provision 640C (Cyclohexane, acetone), 3, II, environmentally hazardous																		
SECTION 15: Regulatory information																		
15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture																		
• Chemical safety assessment Seveso category E1 Hazardous to the Aquatic Environment P5c Flammable Liquids																		
• Qualifying quantity (tonnes) for the application of lower-tier requirements 100 t																		
• Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t																		
• National regulations Water hazard class Water hazard class 2 (Self-assessment): hazardous for water																		
• Substances of very high concern (SVHC) according to REACH, Article 57 None of the ingredients is contained																		

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15.2 Chemical safety assessment

A chemical Safety Assessment has not been carried out.

SECTION 16: Other information

These data sheet are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**

H225 Highly flammable liquid and vapour
H304 May be fatal if swallowed and enters airways
H315 Causes skin irritation
H319 Causes serious eye irritation
H336 May cause drowsiness or dizziness
H400 Very toxic to aquatic life
H410 Very toxic to aquatic life with long lasting effects
H411 Toxic to aquatic life with long lasting effects
EUH066 Repeated exposure may cause skin dryness or cracking

- **Abbreviations and acronyms**

ADR: European agreement concerning the international carriage of dangerous goods by road
IMDG: International maritime dangerous goods code
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of American Chemical Society)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal Concentration 50
LD50: Lethal Dose 50
EC50: Effective concentration 50
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 2: Flammable Liquids – Category 2
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Asp. Tox. 1: Aspiration hazard – Category 1
Aquatic Acute 1: Hazardous to the aquatic environment – acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment – long-term aquatic hazard – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment – long-term aquatic hazard – Category 2