

Safety Data Sheet

According to Regulation (EU) No. 1907/2006 (REACH) and Regulation (EU) No. 453/2010

Product Name: Diadiff

Version: 02

Date: May 5, 2020

1. Identification of the substance/preparation and of the company/undertaking

1.1. Identification of the substance or preparation

Diadiff

The reagent is part of the following catalogue numbers:

H19148, H19149, H19150, H19261, H19262

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

General use: Laboratory reagent for in-vitro diagnostics in human samples

1.3. Details of the supplier of the safety data sheet

Manufacturer:

Dialab Produktion und Vertrieb von chemisch-technischen Produkten und Laborinstrumenten Gesellschaft m.b.H

Address: Hondastrasse, Objekt M55, IZ-NOE Sued, A-2351 Wr. Neudorf, Austria

Telephone / E-mail: +43 (0)2236 660910-0 / office@dialab.at

1.4. Emergency telephone number

Vienna General Hospital, Toxication Centre, phone: +43-(0)1-4064343

2. Hazards identification

2.1. Classification of the substance or mixture:

Classification according to Directive 1272/2008/EC:



GHS09

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

2.2. Label elements:

Labelling (1272/2008/EC):

The product is classified and labelled according to the CLP regulation.

Hazard pictograms



GHS09

Signal word

Not classified as hazardous

Hazard statements

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P102 Keep out of reach of children.

P273 Avoid release to the environment.

P391 Collect spillage.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Labelling of packages where the contents do not exceed 125 ml

Hazard pictograms



GHS09

Signal word

Not classified as hazardous

Hazard statements

Not classified as hazardous.

Precautionary statements

P102 Keep out of reach of children.

2.3. Other hazards

No further relevant information available.

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3. Composition / information on ingredients

3.1. Substances

Not applicable.

3.2. Mixtures

Description: Consisting of the following components:

Dangerous components:		
CAS: 1119-94-4	Dodecyltrimethylammonium bromide ⚠ Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	<5%
CAS: 112-02-7 EINECS: 203-928-6	Cetrimonium chloride ⚠ Skin Corr. 1B, H314; ⚠ Aquatic Acute 1, H400; ⚠ Acute Tox. 4, H302	<0.5%

3.3. Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Classification according to Regulation (EC) No 1272/2008

Hazardous to the aquatic environment - long-term (chronic) aquatic hazard

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

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 the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

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

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

4. First aid measures

4.1. Description of first aid measures

After excessive inhalation: Provide fresh air; consult a doctor in case of medical complaints.

After skin contact: Generally the product does not irritate the skin.

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After eye contact: Rinse opened eye for several minutes under running water.

After swallowing: Do not induce vomiting; call for medical help immediately.

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

No further relevant information available.

5. Firefighting measures

5.1. Extinguishing media

Use fire extinguishing methods suitable to surrounding conditions.

5.2. Special hazards arising from the substance or mixture

No further relevant information available.

5.3. Advice for firefighters

Protective equipment: No special measures required.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Not required

6.2. Environmental precautions

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Dilute with plenty of water.

Do not allow the product to enter sewers/ surface water or ground water.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

7. Handling and storage

7.1. Precautions for safe handling

No special precautions are necessary if used correctly.

7.2. Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: Protect from frost.

8. Exposure controls/personal protection

8.1. Control parameters

Ingredients with limit values that require monitoring at the workplace:	
CAS: 151-50-8 potassium cyanide (<0.1%)	
WEL (Great Britain) IOELV (EU)	Long-term value: 5 mg/m ³ as CN; Sk
MAK (Switzerland)	Short-term value: 5 mg/m ³ Long-term value: 1 mg/m ³ Skin; as cyanide
	Short-term value: 5e mg/m ³ Long-term value: 5e mg/m ³ H OI R2f SSc;
CAS: 7647-01-0 hydrogen chloride (<0.1%)	

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WEL (Great Britain)	Short-term value: 8 mg/m ³ , 5 ppm Long-term value: 2 mg/m ³ , 1 ppm (gas and aerosol mists)
IOELV (EU)	Short-term value: 15 mg/m ³ , 10 ppm Long-term value: 8 mg/m ³ , 5 ppm
MAK (Switzerland)	Short-term value: 6 mg/m ³ , 4 ppm Long-term value: 3 mg/m ³ , 2 ppm SSc;

8.2. Exposure controls

Appropriate engineering controls:

Not applicable.

Personal protective equipment:

General protective and hygienic measures: Wash hands before breaks and at the end of work.

Respiratory protection: Not required.

Protection of hands: Not required.

Eye protection: Goggles recommended during refilling

Environmental exposure controls:

Not applicable.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties:

General Information	
Appearance:	
Form:	Liquid
Colour:	Clear
Odour:	Odourless
Odour threshold:	Not determined.
pH-value:	9+/-10%
Change in condition	
Melting point/freezing point:	0 °C
Initial boiling point and boiling range:	100 °C
Flash point:	Not applicable.
Flammability (solid, gas):	Not applicable.
Ignition temperature:	Not applicable.
Decomposition temperature:	Not determined.
Auto-ignition temperature:	Product is not self-igniting.
Explosive properties:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapour pressure at 20 °C:	23 hPa
Density:	Not determined.
Relative density:	Not determined.
Vapour density:	Not determined.
Evaporation rate:	Not determined.
Solubility in / Miscibility with water:	Fully miscible.
Segregation coefficient (n-octanol/water):	Not determined.

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Viscosity:	
Dynamic at 20 °C:	0.952 mPas
Kinematic:	Not determined.
Solvent content:	
COV:	0 %

9.2. Other information

Osmolarity: 50 +/-10%

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

No dangerous decomposition products known.

11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:		
CAS: 1119-94-4 Dodecyltrimethylammonium bromide		
Oral	LD50	500 mg/kg (ATE)
CAS: 112-02-7 Cetrimonium chloride		
Oral	LD50	500 mg/kg (ATE)

Primary irritant effect:

On the skin: Based on available data, the classification criteria are not met.

On the eyes: Based on available data, the classification criteria are not met.

Respiratory or skin sensitization Based on available data, the classification criteria are not met.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met.

Reproductive toxicity Based on available data, the classification criteria are not met.

STOT-single exposure Based on available data, the classification criteria are not met.

STOT-repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

11.2. Further information

No further relevant information available.

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12. Ecological information

12.1. Toxicity

Aquatic toxicity: No further relevant information available.

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.

Ecotoxicological effects:

Remark: Toxic for fish

Additional ecological information:

General notes:

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies. Toxic for aquatic organisms.

12.5. Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6. Other adverse effects

No further relevant information available.

12.7. Other information

No further relevant information available.

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.

European waste catalogue: HP 14 Ecotoxic

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

14. Transport information

14.1. UN number

ADR, IMDG, IATA: UN3082

14.2. UN proper shipping name

ADR: UN3082 Environmentally hazardous substance, liquid, N.O.S. (cetrimonium chloride, n-dodecyltrimethylammonium bromide, potassium cyanide)

IMDG: Environmentally hazardous substance, liquid, N.O.S. (cetrimonium chloride, n-dodecyltrimethylammonium bromide, potassium cyanide), marine pollutant

IATA: UN3082 Environmentally hazardous substance, liquid, N.O.S. (cetrimonium chloride, n-dodecyltrimethylammonium bromide, potassium cyanide)

14.3. Transport hazard class(es)

ADR

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Class: 9 (M6) Miscellaneous dangerous substances and articles
Label: 9

IMG



Class: 9 (M6) Miscellaneous dangerous substances and articles
Label: 9

IATA



Class: 9 (M6) Miscellaneous dangerous substances and articles
Label: 9

14.4. Packing group

ADR, IMDG, IATA: III

14.5. Environmental hazards

Product contains environmentally hazardous substances: n-dodecyltrimethylammonium bromide

Marine pollutant: Symbol (fish and tree)

Special marking (ADR): Symbol (fish and tree)

14.6. Special precautions for user

Warning: Miscellaneous dangerous substances and articles.

Danger code (Kemler): 90

EMS Number: F-A, S-F

Segregation groups: Cyanides

Stowage Category: A

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

Transport/Additional information:

ADR	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
Transport category	3
IMDG	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
UN "Model Regulation":	UN3082 Environmentally hazardous substance, liquid, N.O.S. (cetrimonium chloride, n-dodecyltrimethylammonium bromide, potassium cyanide), 9, III

15. Regulatory information

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

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

Seveso category E2 Hazardous to the Aquatic Environment

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Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t
Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

15.2. Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out.

16. Other information

Reason of Change:

Not applicable.

Contact person: see section 1.3

Dialab GmbH provides the information in this data sheet in good faith, declaring it is up to date at time of revision. However, this document is intended only as a guide for professional use, according to the intended purposes of the product. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.

The product is for use only by trained personnel.