

Safety Data Sheet

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



Product Name: Transflux

Version: 02

Date: May 6, 2020

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

1.1. Identification of the substance or preparation

Transflux

The reagent is part of the following catalogue numbers:

3MSR0227, 3MSR0900, 3MSR0903, 3MSR0905, 3MSR0910, 3MSR0915, 3MSR0925, 3MSR0980, 3MSR0920, 3MSR0930, 3MSR0930SE, 3MSR0965, 3MSR0970

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

General use: Laboratory reagent for in-vitro diagnostics for human and veterinary use.

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:

The product is not classified according to the CLP regulation.

2.2. Label elements:

Labelling (1272/2008/EC):

Not classified as hazardous

Hazard pictograms: Not classified as hazardous

Signal word: Not classified as hazardous

Hazard statements: Not classified as hazardous

Labelling of packages where the contents do not exceed 125 ml

Hazard pictograms: Not classified as hazardous

Signal word: Not classified as hazardous

Hazard statements: Not classified as hazardous

2.3. Other hazards

No further relevant information available.

3. Composition / information on ingredients

3.1. Substances

Not applicable.

3.2. Mixtures

Description: Mixture: consisting of the following components.

Dangerous components:			
CAS: 64-17-5 EINECS: 200-578-6 Index number: 603-002-00-5 RTECS: KQ 6300000 Reg.nr.: 01-2119457610-43-xxxx	ethanol	Flam. Liq. 2, H225; Eye Irrit. 2, H319	≤2.5%

SVHC: No

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.

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Relevant phrases

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

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)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

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

Flam. Liq. 2: Flammable liquids – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – 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.

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

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

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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: 64-17-5 ethanol ($\leq 2.5\%$)		
WEL (Great Britain)	Long-term value: 1920 mg/m ³ , 1000 ppm	
MAK (Switzerland)	Short-term value: 1920 mg/m ³ , 1000 ppm Long-term value: 960 mg/m ³ , 500 ppm SSc;	
CAS: 26628-22-8 sodium azide (<0.25%)		
WEL (Great Britain)	Short-term value: 0.3 mg/m ³ Long-term value: 0.1 mg/m ³ (as NaN ₃), Sk	
IOELV (EU)	Short-term value: 0.3 mg/m ³ Long-term value: 0.1 mg/m ³ Skin	
MAK (Switzerland)	Short-term value: 0.4 e mg/m ³ Long-term value: 0.2 e mg/m ³	
CAS: 9014-01-1 Subtilisin (<0.1%)		
WEL (Great Britain)	Long-term value: 0.00004 mg/m ³ Sen	
MAK (Switzerland)	Short-term value: 0.00006 mg/m ³ S;	
DNELs		
CAS: 64-17-5 ethanol		
Dermal	DNEL Worker long-term systemic	343 mg/kg bw/d
Inhalative	DNEL Worker long-term systemic	950 mg/m ³
	DNEL Worker acute/short-term local effects	19 mg/m ³
PNECs		
CAS: 64-17-5 ethanol		
Oral	PNEC sediment (fresh water)	3.6 mg/kg
	PNEC STP	0.72 mg/L
	PNEC aqua (fresh water)	0.96 mg/L
	PNEC aqua (marine water)	0.79 mg/L
	PNEC sediment (marine water)	2.9 mg/kg
	PNEC soil	0.63 mg/kg

8.2. Exposure controls

Appropriate engineering controls:

Not applicable.

Personal protective equipment:

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

Respiratory protection: Not required.

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Protection of hands: Not required.
Gloves material : -
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:	Blue
Odour:	Odourless
Odour threshold:	Not determined.
pH-value:	7.2+/-10%
Change in condition	
Melting point/freezing point:	0 °C
Initial boiling point and boiling range:	100
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 Pa
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.
Viscosity:	
Dynamic at 20 °C:	0.952 mPas
Kinematic:	Not determined.
Solvent content: COV :	2 %

9.2. Other information

Osmolarity: 639 +/- 10%

10. Stability and reactivity

10.1. Reactivity

No further relevant information available.

10.2. Chemical stability

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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: 64-17-5 ethanol		
Oral	LD50	7,060 mg/kg (rat)
Inhalative	LC50/4 h	20,000 mg/l (rat)
CAS: 26628-22-8 sodium azide		
Oral	LD50	27 mg/kg (rat)
Dermal	LD50	20 mg/kg (rabbit)
CAS: 9014-01-1 Subtilisin		
Oral	LD50	3,700 mg/kg (rat)

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.

12. Ecological information

12.1. Toxicity

Aquatic toxicity:	
CAS: 64-17-5 ethanol	
EC50 72h	275 mg/l (Algae)
EC50 48h	12,340 mg/l (daphnia)
EC50 96h	13,000 mg/l (fish)

12.2. Persistence and degradability

No further relevant information available.

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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. Other adverse effects

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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, ADN, IMDG, IATA: Not classified as hazardous for transport

14.2. UN proper shipping name

ADR, ADN, IMDG, IATA: Not classified as hazardous for transport

14.3. Transport hazard class(es)

ADR, ADN, IMDG, IATA

Class: Not classified as hazardous for transport

14.4. Packing group

ADR, IMDG, IATA: Not classified as hazardous for transport

14.5. Environmental hazards

Not applicable.

14.6. Special precautions for user

Not applicable.

Stowage Category A

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

Marpol and the IBC Code: Not applicable.

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.

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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

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The product is for use only by trained personnel.