

1. Identification

Product identifier

SYMPROfluid universal 6500-0600

Recommended use of the chemical and restrictions on use

Use of the substance/mixture

Special denture cleaner for use in a denture cleaning appliance with needles.

Uses advised against

No information available.

Details of the supplier of the safety data sheet

Manufacturer

Company name: Renfert GmbH
Street: Untere Giesswiesen 2
Place: D-78247 Hilzingen
Telephone: +49 7731 8208-0
e-mail: info@renfert.com
Contact person: Frau Andris
e-mail: silke.andris@renfert.com
Internet: www.renfert.com

Telefax: +49 7731 8208-70
Telephone: +49 7731 8208-927

Supplier

Company name: Renfert USA
Street: 3718 Illinois Avenue
Place: USA-60174 St. Charles IL
Telephone: (001) 800336-7422
e-mail: Bob@RenfertUSA.com
Contact person: Bob Hurl
e-mail: Bob@RenfertUSA.com
Internet: www.renfert.com

Telephone: +1 (630) 5497380

Emergency phone number:

USA: 800-222-1222 (National Poison Control number) | CA: British Columbia:
800-567-8911 or 604-682-5050 Alberta: 1-800-332-1414 or 944-1414 Saskatchewan:
1-866-454-1212 Manitoba: 1-855-776-4766 Ontario: 1-800-268-9017 Quebec:
1-800-463-5060 New Brunswick: 911 New Foundland: 1-866-727-1110 Northwest
Territories: 1-800-332-1414 Nova Scotia: 1-800-565-8161

2. Hazard(s) identification

Classification of the chemical

Regulation (EC) No. 1272/2008

Hazard categories:

Corrosive to metals: Met. Corr. 1

Skin corrosion/irritation: Skin Corr. 1

Serious eye damage/eye irritation: Eye Dam. 1

Hazard Statements:

May be corrosive to metals

Causes severe skin burns and eye damage

Causes serious eye damage

Label elements

Regulation (EC) No. 1272/2008

Signal word: Danger

Pictograms:



Hazard statements

May be corrosive to metals

Causes severe skin burns and eye damage

Precautionary statements

Wear protective gloves/protective clothing/eye protection/face protection.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a poison center/doctor.

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Absorb spillage to prevent material damage.

Additional advice on labelling

The classification is based on the pH value.

Hazards not otherwise classified

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

3. Composition/information on ingredients**Mixtures****Chemical characterization**

Acid cleaning agent

Hazardous components

CAS No	Components	Quantity
75-75-2	methanesulphonic acid	< 5 %
7647-01-0	Hydrochlorid acid	< 5 %
68920-66-1	Fatty alcohol ethoxylate	< 5 %
112-34-5	2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether	< 3 %

4. First-aid measures**Description of first aid measures****General information**

Take off immediately all contaminated clothing and wash it before reuse.

After inhalation

Provide fresh air.

After contact with skin

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. Immediate medical treatment required because corrosive injuries that are not treated are hard to cure.

After contact with eyes

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

After ingestion

Rinse mouth. Do NOT induce vomiting. Call a physician immediately.

Most important symptoms and effects, both acute and delayed

Causes severe skin burns and eye damage.

Indication of any immediate medical attention and special treatment neededImmediate medical treatment required because corrosive injuries that are not treated are hard to cure.
Treat symptomatically.**5. Fire-fighting measures****Extinguishing media****Suitable extinguishing media**

The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

Specific hazards arising from the chemical

In case of fire may be liberated: Hydrogen chloride (HCl), Sulphur oxides

Special protective equipment and precautions for fire-fightersIn case of fire: Wear self-contained breathing apparatus.
In case of fire and/or explosion do not breathe fumes.**6. Accidental release measures****Personal precautions, protective equipment and emergency procedures**Use personal protection equipment.
Provide adequate ventilation.**Environmental precautions**

Do not allow to enter into surface water or drains.

Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Collect in closed and suitable containers for disposal.

Reference to other sectionsSafe handling: see section 7
Personal protection equipment: see section 8

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Disposal: see section 13

7. Handling and storage
Precautions for safe handling
Advice on safe handling

- Handle and open container with care.
- Wear personal protection equipment (refer to section 8).
- Avoid contact with eyes and skin.
- When using do not eat, drink or smoke.

Advice on protection against fire and explosion

- No special fire protection measures are necessary.

Conditions for safe storage, including any incompatibilities
Requirements for storage rooms and vessels

- Keep only in the original container in a cool, well-ventilated place.
- Keep container tightly closed.

Advice on storage compatibility

- Do not store together with: Alkali (lye)

8. Exposure controls/personal protection
Control parameters
Exposure limits

CAS No.	Substance	ppm	mg/m ³	f/cc	Category	Origin
112-34-5	Diethylene glycol monobutyl ether (inhalable fraction and vapor)	10			TWA (8 h)	ACGIH-2016
7647-01-0	Hydrogen chloride	-	-		TWA (8 h)	PEL
		-	-		TWA (8 h)	ACGIH-2016
		2			Peak	ACGIH-2016
		C 5	C 7		Ceiling	PEL
		C 5	C 7		Ceiling	REL

Exposure controls
Appropriate engineering controls

- Safe handling: see section 7

Protective and hygiene measures

- Remove contaminated, saturated clothing immediately.
- Wash hands before breaks and after work.
- Avoid contact with eyes and skin.
- Keep away from food, drink and animal feedingstuffs.

Eye/face protection

- Wear eye/face protection.

Hand protection

- When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits.
- Suitable material: CR (polychloroprene, chloroprene rubber), Butyl caoutchouc (butyl rubber), FKM (fluoro rubber), PVC (Polyvinyl chloride)
- Thickness of the glove material: 0,5 mm
- Breakthrough time: >= 8 h
- For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

Respiratory protection

- Provide adequate ventilation.
- Respiratory protection necessary at: aerosol or mist formation

Environmental exposure controls

- Do not allow to enter into surface water or drains.

9. Physical and chemical properties
Information on basic physical and chemical properties

- Physical state: liquid
- Color: colourless

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Odor: fruity

Test method

pH-Value (at 20 °C): < 1

Changes in the physical state

Melting point/freezing point: not determined

Initial boiling point and boiling range: 100 °C

Flash point: not applicable

Explosive properties

not explosive according to EU A.14

Lower explosion limits: not determined

Upper explosion limits: not determined

Ignition temperature: not determined

Decomposition temperature: not determined

Vapor pressure: 23 hPa

(at 20 °C)

Density (at 20 °C): 1,02 - 1,06 g/cm³

Water solubility: completely miscible

Partition coefficient: not determined

Viscosity / dynamic: not determined

Viscosity / kinematic: not determined

Vapor density: not determined

Evaporation rate: not determined

Other information

No data available

10. Stability and reactivity**Reactivity**

No hazardous reaction when handled and stored according to provisions.

Chemical stability

Stability: Stable

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

Possibility of hazardous reactions

Violent reaction with: Alkali (lye)

Corrosive to metals

Conditions to avoid

No special measures are necessary.

Incompatible materials

Violent reaction with: Alkali (lye)

Corrosive to metals

Hazardous decomposition products

No known hazardous decomposition products.

11. Toxicological information**Information on toxicological effects****Acute toxicity**

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

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CAS No	Components				
	Exposure route	Dose	Species	Source	Method
75-75-2	methanesulphonic acid				
	oral	LD50 mg/kg 648,7	Rat		
	dermal	LD50 mg/kg > 1000	Rabbit		
7647-01-0	Hydrochlorid acid				
	dermal	LD50 mg/kg > 5010	Rabbit		
68920-66-1	Fatty alcohol ethoxylate				
	oral	LD50 mg/kg > 5000	Rat	calculated.	
112-34-5	2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether				
	oral	LD50 mg/kg > 2000	Rat		
	dermal	LD50 mg/kg > 2000	Rabbit		

Irritation and corrosivity

Causes severe skin burns and eye damage

Sensitizing effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

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

Specific target organ toxicity (STOT) - single exposure

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

Specific target organ toxicity (STOT) - repeated exposure

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

Carcinogenicity (IARC):

Hydrochloric acid (CAS 7647-01-0) is listed in group 3.

Aspiration hazard

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

Further information

The product has not been tested. The statement is derived from the properties of the single components.

12. Ecological information
Ecotoxicity

There are no data available on the mixture itself.

Persistence and degradability

There are no data available on the mixture itself.

Bioaccumulative potential

No indication of bioaccumulation potential.

Mobility in soil

No information available.

Other adverse effects

No information available.

Further information

The product has not been tested. The statement is derived from the properties of the single components. Do not allow uncontrolled discharge of product into the environment.

13. Disposal considerations
Waste treatment methods
Advice on disposal

Dispose of waste according to applicable legislation.

14. Transport information

US DOT 49 CFR 172.101

UN/ID number:

UN 3264

Proper shipping name:

CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

Transport hazard class(es):

8

Packing group:

II

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Hazard label: 8

Marine transport (IMDG)**UN number:** UN 3264**UN proper shipping name:** CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Alkylsulphonic acid and hydrochloric acid mixture)**Transport hazard class(es):** 8**Packing group:** II

Marine pollutant: no

Air transport (ICAO-TI/IATA-DGR)**UN number:** UN 3264**UN proper shipping name:** CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Alkylsulphonic acid and hydrochloric acid mixture)**Transport hazard class(es):** 8**Packing group:** II**Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: no

Special precautions for user

not applicable

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

not applicable

15. Regulatory information**U.S. Regulations****National regulatory information**

SARA Section 304 CERCLA:

Hydrochloric acid (conc. 37% or greater) (7647-01-0): Reportable quantity = 5,000 (2270) lbs. (kg)

SARA Section 311/312 Hazards:

methanesulphonic acid (75-75-2): Immediate (acute) health hazard

Hydrochloric acid (conc. 37% or greater) (7647-01-0): Immediate (acute) health hazard

Fatty alcohol ethoxylate (68920-66-1): Immediate (acute) health hazard

2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether (112-34-5): Immediate (acute) health hazard

Clean Air Act Section 112(r):

Hydrochloric acid (conc. 37% or greater) (7647-01-0): Threshold quantities = 15,000 lbs.

Clean Air Act Section 112(b):

Hydrochloric acid (conc. 37% or greater) (7647-01-0)

State Regulations**Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)**

This product contains no chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

16. Other information**Hazardous Materials Information Label (HMIS)**

Health: 3

Flammability: 0

Physical Hazard: 1

Personal Protection: B

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Changes

* Data changed compared with the previous version: 14. Transport Information

Abbreviations and acronyms

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LD50: lethal dose, 50%

LC50: lethal concentration, 50%

EC50: half maximal effective concentration

ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement concernant le transport international ferroviaire de marchandises Dangereuses (Regulations Concerning

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the International Transport of Dangerous Goods by Rail)
IMDG: International Maritime Code for Dangerous Goods
ICAO: International Civil Aviation Organization
MARPOL: International Convention for the Prevention of Marine Pollution from Ships

Other data

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.
Restricted to professional users.

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