



MATERIAL SAFETY DATA SHEET

SANITIZING SOLUTION

Compilation date: 31 August 2021

Edition: 2

(According to Regulation (EC) No. 1907/2006)

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 PRODUCT IDENTIFIERS

Product name: SANITIZING SOLUTION

Product code: PF 83604

Brand: DIESSE

1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCES OR MIXTURE AND USES ADVISED AGAINST

Identified use: Professional use as laboratory reagent.
Concentrated sanitizing solution for tubes and needles of instruments Chorus/Chorus TRIO.

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Company: DIESSE Diagnostica Senese S.p.A

Registered office:

Via A. Solari 19
20144 Milan, Italy
Tel: +39 02 4859121
Fax: +39 02 48008530

Production plant:

Strada dei Laghi, 39
53035 Monteriggioni (SIENA), Italy
Tel: +39 0577 307100
e-mail: contatti@diesse.it

1.4 EMERGENCY TELEPHONE NUMBER

Emergency number: Centro Antiveleni, Ospedale Niguarda Ca' Granda - Milan
Tel: +39 02 66101029

Centro Antiveleni, Azienda Ospedaliera "S.G.Battista" – Molinette di Torino - Turin
Tel: +39 011 6637637

Centro Antiveleni – U.O. Tossicologia Medica, Azienda Ospedaliera Careggi – Florence
Tel: +39 055 4277238

Centro Antiveleni, Policlinico A. Gemelli – Università Cattolica del Sacro Cuore - Rome
Tel: +39 06 3054343

Centro Antiveleni, Azienda Ospedaliera A. Cardarelli – Naples
Tel: +39 081 7472870

2. HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCES OR MIXTURE

Classification according to Regulation (EC) No. 1272/2008: Skin Corrosion – Category 1B

Hazard statement: H314 - Causes severe skin burns and eye damage

2.2 LABEL ELEMENTS

Pictograms: GHS05

Signal word: Danger



Hazard statement(s):
H314 - Causes severe skin burns and eye damage

Precautionary statement(s):

Prevention:

P280 – Wear protective gloves/protective clothing/eye protection/face protection.

Reaction:

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.

P362 – Take off contaminated clothing and wash before reuse.

Contains:

Potassium hydroxide
Index No: 019-002-00-8

2.3 OTHER HAZARDS

None

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances Not applicable

3.2 Mixtures

International Chemical Identification	Concentration	Classification Regulation EC/1272/2008
Potassium hydroxide Cas No: 1310-58-3 EC No: 215-181-3 Index No: 019-002-00-8	<3%	Acute Tox. Cat. 4 – H302 Skin Corr. Cat. 1A – H314

The entire text of Hazard Statements is reported at Section 16 of the sheet.

4. FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES

General advice: Move the person from the exposure to open air. Wear off the contaminated clothes.

Skin contact: Wear off the contaminated clothes and wash with copious amounts of water. Consult a physician immediately.

Eye contact:	Remove immediately lenses (if present). Wash with plenty of water at least 15 minutes, keeping eyelids opened. Consult a physician immediately. Do not use any kind of eye drop or ointment before the oculist consultation.
Ingestion:	Rinse mouth immediately and drink a copious amounts of water. Do not cause vomiting or emesis. Call a physician immediately.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS

No data available

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

In case of skin or eye contact or after ingestion, consult a doctor and show him/her this data sheet.

5. FIREFIGHTING MEASURES

5.1 EXTINGUISH MEDIA

Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment (CO₂, foam, powder).

Not Suitable extinguishing media: None

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

In case of fire, irritating and/or toxic fumes can be released by the mixture.

5.3 ADVICE FOR FIREFIGHTERS

In case of fire wear self-contained breathing apparatus. Keep cold the closed, not burned containers using jets. Avoid that fire extinguishing water contaminates surface water and/or groundwater.

6. ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Keep people not involved in the intervention operations away. Ensure an adequate ventilation of the affected area. Avoid the contact with skin or eyes. Do not handle damaged containers or the leaked product before wearing appropriate protective outfit. Ensure the presence of emergency shower and eyewash.

6.2 ENVIRONMENTAL PRECAUTIONS

Avoid the contamination of surface water, soil and the dispersion in the air.

6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

Contain the leakages with earth and sand. Collect the spilled material with mechanical means avoiding raising of dust and store it in suitable containers for disposal. Use water only to remove residuals, to avoid the danger of spill of product into the sewers.

6.4 REFERENCE TO OTHER SECTIONS

For further information see section 8 and 13.

7. HANDLING AND STORAGE

7.1 PRECAUTION FOR SAFE HANDLING

Work in well ventilated areas. Avoid contact and inhalation of vapors. Do not eat or drink during the work time.

7.2 CONDITION FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Keep the containers tightly closed and labeled in a cool, well-ventilated area, away from heat sources and from direct sunlight. Keep the containers vertically avoiding the possibility of falls and collution.

7.3 SPECIFIC END USE

None

8. EXPOSURE CONTROL/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

Applicable exposure limits:	Potassium hydroxide TLV-ACGH: 2mg/m ³ (ceiling value)
Other information:	Potassium hydroxide Derived no effect level (IUCLID) DNEL Long -term exposure - local effects - inhalation: 1 mg/m ³

8.2 EXPOSURE CONTROLS

Work and handle according to the usual precautionary measures for handling chemicals.
Avoid aerosol creation.
Do not eat, drink or smoke while handling the product; wash hands thoroughly with soap and water before meals and after the work shift.

Appropriate engineering controls:	Ensure an adequate ventilation of the working area and the presence of emergency shower
Personal Protective Equipment:	The suggestions on the use of specific PPE are indicative. Their choice should be made according to the use of the product and the instructions given by the supplier of the <u>Hand protections:</u> Chemical-resistant gloves, compliant with EN 374 <u>Eye protections:</u> Safety goggles side sheets comply with EN 166 <u>Body protections:</u> Work outfits for complete skin protection

Respiratory protections:

In case of aerosol creation, use breathing apparatus with P3 filters, which comply with EN

8.3 ENVIRONMENTAL EXPOSURE CONTROLS:

Do not discard residuals in the environment. Discard the empty containers as hazardous waste.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid
Odor:	Odorless
Odor threshold:	No data available
pH:	> 13
Melting point/freezing point	-3.8°C
Initial boiling point and boiling range	100.5°C
Flash point	No data available
Evaporation rate	Not pertinent
Flammability	No data available
Upper/lower flammability or explosive limit	No data available
Vapor pressure	17.1 mmHg at 20°C
Vapor density	No data available
Relative density	1.083 at 20°C
Water solubility	Totally soluble in water.
Partition coefficient: n-octano/water	No data available
Autoignition temperature	Not pertinent
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available

9.2 OTHER SAFETY INFORMATION

None

10. STABILITY AND REACTIVITY

10.1 REACTIVITY

The mixture is a strong base, which strongly reacts with acids. In humid environment, it is corrosive for zinc, aluminum, tin and lead creating combustible/explosive gases. It reacts with ammonium salts and creates ammonia causing fire danger. It absorbs carbon dioxide and water from air. The contact with humidity or water produces heat.

10.2 CHEMICAL STABILITY

Stable under the recommended transport, handling and storage conditions.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

No data available

10.4 CONDITIONS TO AVOID

Exposure to light and humidity

10.5 INCOMPATIBLE MATERIALS

If enter in contact with halogenated organic substances or elementary metals can generate inflammable gases

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

When heated or in case of fire, vapors potentially dangerous to health may be produced

11. TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

If it enters in contact with the skin, the product causes significant inflammation with erythema, scabs, and edema. If it enters in contact with the eyes, the product causes severe eye injuries, as cornea opacification or iris injury.

Information on the present substances:

Potassium hydroxide

The substance can be absorbed into the body by inhalation of its aerosol and by ingestion.

INHALATION RISK: Evaporation at 20°C is negligible; however a harmful concentration of airborne particles may, be reached quickly.

The substance is very corrosive to the eyes, the skin and the respiratory tract. Corrosive on ingestion. Inhalation of an aerosol of this substance may cause lung edema, that occurs after a few hours and is aggravated by physical effort.

Repeated or prolonged contacts with skin may cause dermatitis.

LD50: 333 mg/kg (oral, rat)

12. ECOLOGICAL INFORMATION

12.1 TOXICITY

Use according to the good working practices, avoiding the disposal in the environment. In case the product reach waterways or sewers or contaminate soil or vegetation, inform the competent authorities.

Depending on its alkaline pH, the product may cause danger for the environment and particularly for the aquatic organisms.

12.2 PERSISTENCE AND DEGRADABILITY

No data available

12.3 BIOACCUMULATIVE POTENTIAL

No data available

12.4 MOBILITY IN SOIL

No data available

12.5 RESULTS OF PBT AND VPVB ASSESSMENT

No data available

12.6 OTHER ADVERSE EFFECTS

No data available

13. DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS

The product and its containers should be considered special waste.

Their transport and disposal should be performed by authorized specialized companies according to the law.

14. TRANSPORT INFORMATION

Even if the mixture is classified as hazardous by the transport regulations (see table below), the exemptions to the classification of ADR Chapter 3.4 - Dangerous goods packed in limited quantities – can be applied. The product, in fact, is contained in conforming packages, containing a volume of 20 ml.

These goods must be transported by vehicles authorized to the transport of hazardous goods according to the requirements of the current edition of ADR and to the national regulations.

People, responsible for the loading and unloading of this dangerous good must be trained on all the risks deriving from the substance and on procedures to be taken in case of emergency.

ADR/RID:			
UN N°	1814	Class:	8
Classification:	C5	Packaging group:	II
Tunnel restriction code:	(E)		
If subject to the following characteristics is ADR exempt:			
Combination packagings: per inner packaging 1 L per package 30 Kg			
Inner packagings placed in shrink-wrapped or stretch-wrapped trays: per inner packaging 1 L per package 20 Kg			
Sea transport (IMDG Code):			
UN N°	1814	Class:	8
Packaging group:	II	EmS:	F-A, S-B
Marine polluting agent	no		
Air transport (ICAO-IATA):			
Class:	8	Packaging group:	II
Name:	potassium hydroxide solution		
Label:	n.8		

15. REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

Hazard classification, labeling and packaging under Regulation 1272/2008 (EC) and its subsequent amendments.

Legislative Decree 81/2008:

The use of this chemical entails the obligation of "Risk Assessment" by the employer in accordance with the provisions of the Decree April 9, 2008 n. 81 and subsequent amendments. Workers exposed to this chemical agent must not undergo health checks whether the results of the risk assessment show that, depending on the type and quantity of chemical agent and the method and frequency of exposure to this agent, there is only one "Low risk to the safety and irrelevant to the health" of the workers and the measures provided for in the same Decree are sufficient to reduce the risk.

Directive 96/82/EC (Seveso Directive):

Not applicable

15.2 CHEMICAL SAFETY ASSESSMENT

Not performed for the product

16. OTHER INFORMATION

This product has to be used for diagnostic use only by personnel who is qualified and trained on the hazards shown in this safety sheet.

Text of the hazard statements present at point 3

H302 Harmful if swallowed

H314 Causes severe skin burns and eye damage

REFERENCES:

1. Regulation (EC) 1907/2006 of the European Parliament (REACH) as amended
2. Regulation (EC) 1272/2008 of the European Parliament (CLP) as amended
3. ECHA European Chemicals Agency www.echa.europa.eu
4. The Merck Index.
5. Handling Chemical Safety
6. NIOSH - Registry of Toxic Effects of Chemical Substances
7. INRS - Fiche Toxicologique

DIESSE Diagnostica Senese SpA declares that the information contained in this data sheet is based on the knowledge available to us on the date of the last version. Users must verify the suitability and accuracy of the provided information according to the specific use of the product. The document has not been accepted as a guarantee of any specific product property. Because of the use of this product is not subject to our direct control, the users, under their own responsibility, must observe the laws and regulations relating to health and safety. We accept no responsibility for improper use.

This sheet supersedes any previous edition.