SAFETY DATA SHEET

DETRO FORTE

According to Regulation (EU) No 453/2010

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product Name DETRO FORTE

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

Identified Uses Medical Device and Endoscope Disinfectant

1.3. Details of the supplier of the safety data sheet

Supplier **Detro Healthcare Kimya Sanayi A.Ş**
Atatürk mh. Adnan Menderes cd. No:7
Esenyurt/İstanbul-Turkiye

Contact person info@detrox.com.tr

1.4. Emergency telephone number

+90 212 659 77 62

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification
Eye Dam.1 ; H318 , STOT SE 3; H335, Aquatic Chronic 3, H412

2.2. Label elements

Pictogram:

Signal word : Danger

Hazard Statements:
H318 - Causes serious eye damage.
H335 - May cause respiratory irritation
H412 - Harmful to aquatic life with long lasting effects

Precautionary statements :
P261 : Avoid breathing dust/fume/gas/mist/vapours/spray.
P271 : Use only outdoors or in a well-ventilated area.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P304+P340 : IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.
P305+P351+P338 : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310: Immediately call a POISON CENTER or doctor/physician
P312: Call a POISON CENTER or doctor/physician if you feel unwell.
P403+P233: Store in a well-ventilated place. Keep container tightly closed.
P405: Store locked up.
P501: Dispose of contents/container to.....

2.3 Other hazards

This product does not contain any substances classified as PBT or vPvB

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Containing Hazardous Components;			M factors
Cas No: 111-30-8 EC No : 203-856-5	**Glutaraldehyde** Acute Tox. 3 (Oral), H301 Skin Corr. 1B, H314 Skin Sens. 1, H317 Resp. Sens. 1, H334 Acute Tox. 2 , H330 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 2, H411	1 % - 5 %	STOT SE 3; H335: 0,5 % ≤ C < 5 % M=1

The Full Text for all Hazard Statements are Displayed in Section 16.

SECTION 4 : FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation : Assure fresh air breathing. Obtain medical attention if breathing difficulty persists.

Skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Seek medical attention if irritation develops.

Eye contact : Rinse immediately with plenty of water. Contact ophthalmologist immediately.

Ingestion : Rinse mouth. Do not induce vomiting because of corrosive effects. Call a physician immediately.

4.2. Most important symptoms and effects, both acute and delayed

General information : See Section 11 for additional information on health hazards. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation :Single exposure may cause the following adverse effects: Corrosive to the respiratory tract. Symptoms following overexposure may include the following: Severe irritation of nose and throat.

Ingestion :May cause chemical burns in mouth, esophagus and stomach. Symptoms following overexposure may include the following: Severe stomach pain. Nausea, vomiting.

Skin contact : Causes severe burns. Symptoms following overexposure may include the following: Pain or irritation. Redness. Blistering may occur.

Eye contact : Causes serious eye damage. Symptoms following overexposure may include the following: Pain. Profuse watering of the eyes. Redness.

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor Treat symptomatically.

SECTION 5 : FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards :Severe corrosive hazard. Water used for fire extinguishing, which has been in contact with the product, may be corrosive.

Hazardous combustion products
Thermal decomposition or combustion products may include the following substances: Very toxic or corrosive gases or vapours.

5.3. Advice for firefighters

Protective actions during firefighting Avoid breathing fire gases or vapours. Evacuate area. Keep upwind to avoid inhalation of gases, vapours, fumes and smoke. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapours and protect men stopping the leak. Avoid discharge to the aquatic environment. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

Special protective equipment for firefighters Regular protection may not be safe. Wear chemical protective suit. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Spill should be handled by trained cleaning personnel properly equipped with respiratory and eye protection. Flush/dilute with water.

6.2. Environmental precautions

Environmental precautions: Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

After spillage and/or leakage: Dyke for recovery or absorb with appropriate material. Dilute residues and flush.
Use suitable disposal containers.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Handling: Use only under a chemical fume hood. Wear personal protective equipment. Do not breathe vapors or spray mist. Do not get in eyes, on skin, or on clothing. Keep away from open flames, hot surfaces and sources of ignition. Use explosion-proof equipment. Use only non-sparking tools. Keep away from clothing and other combustible materials.

7.2.Storage : Keep refrigerated. Corrosives area. Organic peroxides. Keep away from heat and sources of ignition. Keep containers tightly closed in a dry, cool and well-ventilated place. Do not store near combustible materials.

Storage Temperature : 5-35°C

Package Material : Use HDPE. Don't use PVC.

Requirements for Storage Areas and Containers : Because of package material, keep away from heat.

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits
Glutaraldehyde (111-30-8)

EU IOELV TWA (mg/m³) 20 mg/m³

EU IOELV TWA (ppm) 0,2 ppm

United Kingdom WEL TWA (mg/m³) 15min - 8h 0,2 mg/m³

United Kingdom WEL TWA (ppm) 15min - 8h 0,05 ppm

8.2. Exposure controls:



Respiratory Protection : There is no need any special equipment for respiratory protection.

Hand Protection

Gloves for continuous contact: Gloves suitable for splash protection

Material: Butyl-rubber Material: Nitrile-rubber

Operating time >=480 min Operating time: >=30 min

Glove thickness: >=0,7 mm Glove thickness: >=0,4 mm

Eye protection Goggles been tightly sealed with face shields

Skin and Body Protection 08.07.026 If skin contact or contamination of clothing is likely, protective clothing should be worn..

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical State	: Liquid	Ph	: 3,5-4,5 (after activation 7,5-8,5)
Colour	: Greenish	Solubility in water	: Soluble in all proportions
Odour	: Spesific	Density	: 1,02 g/cm3 ± 0,1 g/ml
Melting point	: No data available	Other solvents	: Unspecified
Freezing point	: -13,5 °C	Dilution rate	: According to the case
Boiling point	: 93 °C	Explosive Porperties	: Not explosive
Flash point	: Unspecified	Flammability	: Unspecified
Vapour pressure	: Unspecified	Viscosity	: Unspecified

9.2. Other information

Other information No information required.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity :No data available.

10.2. Chemical stability :Stable under normal temperature conditions and recommended use. Stable under the prescribed storage conditions.

10.3. Possibility of hazardous reactions :Not expected.

10.4. Conditions to avoid :Avoid exposure to high temperatures or direct sunlight.

10.5. Incompatible materials :Strong oxidising substances.

10.6. Hazardous decomposition products : Fire creates: Carbon monoxide (CO). Carbon dioxide (CO2).

SECTION 11 : TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Product:
Acute oral toxicity : Acute toxicity estimate: 3,922 mg/kg
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: > 40 mg/l Exposure time: 4 h Test atmosphere: vapour
Method: Calculation method

Components:
1,5-pentanedial Acute oral toxicity : Assessment: The component/mixture is toxic after single ingestion.
Acute inhalation toxicity : Assessment: The component/mixture is toxic after short term inhalation

Toxicologically Synergistic
No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation Causes severe burns by all exposure routes

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.
Component

Mutagenic Effects
No information available

Reproductive Effects
No information available.

Developmental Effects
No information available.

Teratogenicity
No information available.
STOT - single exposure

Respiratory system
STOT - repeated exposure
None known

Aspiration hazard
No information available

Symptoms / effects,both acute and delayed
Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting

Endocrine Disruptor Information
No information available

Other Adverse Effects
The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information..

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity
Ecology - general : This product contains hazardous components for the environment.

12.2. Persistence and degradability
No data available

12.3. Bioaccumulative potential
No additional information available

12.4. Mobility in soil
No additional information available

12.5. Results of PBT and vPvB assessment
No additional information available

12.6. Other adverse effects
Other adverse effects : This product contains hazardous components for the environment.

SECTION 13 : DISPOSAL CONSIDERATIONS

Waste treatment methods: Dispose of this material and its container at hazardous or special waste collection point. Dispose in a safe manner in accordance with local/national regulations.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14 : TRANSPORT INFORMATION

In accordance with ADR / RID / IMDG / DOT / IATA

International transport regulations

ADR	Not dangerous goods
RID	Not dangerous goods
DOT	Not dangerous goods
IATA	Not dangerous goods
IMDG	Not dangerous goods

SECTION 15 : REGULATORY INFORMATION

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

National regulations Health and Safety at Work etc. Act 1974 (as amended).The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009No. 716).The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"]. EH40/2005 Workplace exposure limits.

EU legislation Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). Commission Regulation (EU) No 453/2010 of 20 May 2010.

15.2. Chemical safety assessment
No chemical safety assessment has been carried out

SECTION 16 : OTHER INFORMATION

Information Sources
This SDS is prepared based on the information received from the product owner.

Revision Comments
Revision No: 00
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Issued By
Bayram NAZLI

Hazard Statements In Full

H301 Toxic if swallowed
H314 Causes severe skin burns and eye damage
H317 May cause an allergic skin reaction
H330 Fatal if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335 May cause respiratory irritation.
H400 Very toxic to aquatic life
H411 Toxic to aquatic life with long lasting effects.

Disclaimer
This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.