# SAFETY DATA SHEET

*(REACH regulation (EC) n° 1907/2006 - n° 453/2010)*

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

### 1.1. Product identifier

*Product name: TFD 7 PF*

*Product code: 010209*

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

*Liquid phosphate-free degreasing detergent for automatic washing machines.*

### 1.3.Details of the supplier of the safety data sheet

*Registered company name: FRANKLAB*

*Address: 3 avenue des Frênes.78180.MONTIGNY LE BRETONNEUX.FRANCE.*

*Telephone: +33 1 39 44 93 40. Fax: +33 1 39 44 93 41.*

*contact@franklab.com*

*www.franklab.com*

### 1.4. Emergency telephone number: +33 1 40 44 30 00

*Association/Organization:INRS Paris.*

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

**In compliance with EC regulation No. 1272/2008 and its amendments.**

*Skin corrosion, Category 1A (Skin Corr. 1A,H314).*

*This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.*

*This mixture does not present a hazard to the environment. Ecological damages are not known or expected under normal uses.*

### 2.2. Label elements

*Detergent mixture (see section 15).*

**In compliance with EC regulation No. 1272/2008 and its amendments.**

*Hazard Pictograms:*



*GHS05*

*Signal Word:*

*DANGER*

*Product identifiers:*

| | |
|---|---|
| *EC 227-743-5* | *ETHYLENEDIAMINETETRAACETATE TETRAPOTASSIUM* |
| *EC 215-181-3* | *POTASSIUM HYDROXIDE* |

*Hazard statements:*

| | |
|---|---|
| *H314* | *Causes severe skin burns and eye damage.* |

*Precautionary statements – Prevention:*

| | |
|---|---|
| *P280* | *Wear protective gloves/protective clothing/eye protection/face protection.* |

*Precautionary statements - Response:*

| | |
|---|---|
| *P303+P361+P353* | *IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.* |
| *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.* |

**Other hazards**

*The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) >= 0.1% published by the European CHemicals Agency (ECHA) under article 57 of REACH: http://echa.europa.eu/fr/candidate-list-table*

*The mixture satisfies neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.*



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## SECTION 3: COMPOSITION/INFORMATIONS ON INGREDIENTS

### 3.2. Mixtures

**Composition:**

| Identification | (EC) 1272/2008 | Note | % |
|---|---|---|---|
| CAS: 5964-35-2<br>EC: 227-743-5<br><br>ETHYLENEDIAMINETETRAACETATE TETRAPOTASSIUM | GHS07, GHS05<br>Dgr<br>Acute Tox. 4, H302<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>Acute Tox. 4, H332 | | 2.5 <= x % < 10 |
| CAS: 1310-58-3<br>EC: 215-181-3<br>REACH: 01-2119487136-33-xxxx<br><br>POTASSIUM HYDROXIDE | GHS07, GHS05<br>Dgr<br>Met. Corr. 1, H290<br>Acute Tox. 4, H302<br>Skin Corr. 1A, H314 | [1] | 0 <= x % < 2.5 |

**Information on ingredients:**

[1] Substance for which maximum workplace exposure limits are available.

## SECTION 4: FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

### 4.1. Description of first aid measures

**In the event of splashes or contact with eyes:**

Wash thoroughly with fresh, clean water for 15 minutes holding the eyelids open.

Regardless of the initial state, refer the patient to an ophthalmologist and show him the label.

**In the event of splashes or contact with skin:**

Remove any soiled or splashed clothing immediately.

Watch out for any remaining product between skin and clothing, watches, shoes, etc.

If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.

**In the event of swallowing:**

Do not give the patient anything orally.

Seek medical attention immediately, showing the label..

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

No data available.

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

No data available.

## SECTION 5: FIREFIGHTING MEASURES

Non-flammable.

### 5.1. Extinguishing media

**Suitable methods of extinction**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### 5.2. Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke. In the event of a fire, the following may be formed:

- carbon monoxide (CO)
- carbon dioxide (CO2)

### 5.3. Advice for firefighters

Use self-contained breathing apparatus and full protective gear.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

**For non first aid worker**



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*Avoid any contact with the skin and eyes*.

**For first aid worker**

*First aid workers will be equipped with suitable personal protective equipment (See section 8).*

**6.2. Environmental precautions**

*Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste.*

*Prevent any material from entering drains or waterways.*

**6.3. Methods and material for containment and cleaning up**

*If the ground is contaminated, once the product has been recovered by sponging with an inert and non-combustible material, wash the contaminated area with plenty of water.*

**6.4.Reference to other sections**

*No data available.*

## SECTION 7: HANDLING AND STORAGE

*Requirements relating to storage premises apply to all facilities where the mixture is handled.*

**7.1. Precautions for safe handling**

*Always wash hands after handling.*

*Remove and wash contaminated clothing before re-using.*

**Fire prevention:**

*Prevent access by unauthorized personnel.*

**Recommended equipment and procedures:**

*For personal protection, see section 8.*

*Observe precautions stated on label and also industrial safety regulations.*

**Prohibited equipments and procedures:**

*No smoking, eating or drinking in areas where the mixture is used.*

**7.2. Conditions for safe storage, including any incompatibilities**

*Keep container tightly closed.*

**Storage**

*Store at temperatures between 5°C and 35°C.*

**Packaging**

*Always keep in packaging made of an identical material to the original.*

**7.3. Specific end use(s)**

*Professional use only.*

*Consult section 1 for the product use.*

## SECTION 8: EXPOSURE CONTROLS/PERSONNAL PROTECTION

**8.1. Control parameters**

**Occupational exposure limits:**

*- ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010):*

| CAS | TWA : | STEL: | Ceiling: | Definition: | Criteria : |
|---|---|---|---|---|---|
| 1310-58-3 | - | - | 2mg/m3 | - | - |

*- France (INRS - ED984:2012):*

| CAS | VME -ppm : | VME-mg/m3 : | VLE-ppm : | VLE-mg/m3 : | Notes: | TMP No : |
|---|---|---|---|---|---|---|
| 1310-58-3 | - | - | - | 2 | - | - |

**8.2.Exposure controls**

**Personal protection measures, such as personal protective equipment**

*Use personal protective equipment that is clean and has been properly maintained.*
*Store personal protective equipment in a clean place, away from the work area.*
*Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.*

**- Eye/face protection**

*Avoid contact with eyes.*

*Before handling, wear safety goggles with protective sides accordance with standard EN166*.



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**- Hand protection**

*Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374.*

**- Body protection**

*Avoid skin contact.*
*Wear suitable protective clothing.*
*Work clothing worn by personnel shall be laundered regularly.*
*After contact with the product, all parts of the body that have been soiled must be washed.*

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

**General information**

| | |
|---|---|
| *Physical state:* | *Fluid liquid.* |

**Important health, safety and environmental information**

| | |
|---|---|
| *pH:* | *13.00* |
| | *Strong basis.* |
| *Flash point interval:* | *Not relevant.* |
| *Vapour pressure (50°C):* | *Below 110kPa (1.10 bar).* |
| *Density:* | *> 1* |
| *Water solubility:* | *Soluble.* |

### 9.2. Other information

*No data available.*

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

*No dangerous reactions if handling and storage conditions are respected.*

### 10.2. Chemical stability

*This mixture is stable under the recommended handling and storage conditions in section 7.*

### 10.3. Possibility of hazardous reactions

*Do not mix with other products.*

### 10.4. Conditions to avoid

*- frost*

### 10.5. Incompatible materials

*Keep away from:*

*- Strong acids.*

### 10.6. Hazardous decomposition products

*The thermal decomposition may release/form:*
*- carbon monoxide (CO)*
*- carbon dioxide (CO2)*

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

#### 11.1.1. Substances

**Acute toxicity:**

*ETHYLENEDIAMINETETRAACETATE TETRAPOTASSIUM (CAS: 5964-35-2)*
*Inhalation route (Dust/mist): _ _ _ _ _ _ _ _ _ _ _ _ _ _ 1 < CL50 <= 5mg/l*

#### 11.1.2. Mixture

**Skin corrosion/irritation:**

*Corrosive classification is based on an extreme pH value.*

**Serious eye damage/irritation:**

*Corrosive classification is based on an extreme pH value.*

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

### 12.1.2. Mixtures



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*No aquatic toxicity data available for the mixture.*

**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.*

## SECTION 13: DISPOSAL CONSIDERATIONS

*Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.*

**13.1. Waste treatment methods**

*Do not pour into drains or waterways.*

**Waste:**

*Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.*
*Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.*
*Do not contaminate the ground or water with waste, do not dispose of waste into the environment.*

**Soiled packaging:**

*Empty container completely. Keep label(s) on container.*
*Give to a certified disposal contractor.*

## SECTION 14: TRANSPORT INFORMATION

*Exempted from Transport labeling.*
*Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2013 - IMDG 2012 - ICAO/IATA 2014).*

**14.1.** *UN number*

*1814*

**14.2. UN proper shipping name**

*UN1814= POTASSIUM HYDROXIDE SOLUTION*

**14.3. Transport hazard class(es)**

*- Classification:*




*8*

**14.4. Packing group**

*III*

**14.5. Environmental hazards**

*-*

**14.6. Special precautions for user**

| ADR/RID | Class | Code | Pack gr. | Label | Ident. | LQ | Provis.. | EQ | Cat. | Tunnel |
|---|---|---|---|---|---|---|---|---|---|---|
| | 8 | C5 | III | 8 | 80 | 5L | - | E1 | 3 | E |

| IMDG | Class | 2°Label | Pack gr. | LQ | EMS | Provis. | EQ |
|---|---|---|---|---|---|---|---|
| | 8 | - | III | 5L | F-A,S-B | 223 | E1 |



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| IATA | Class | 2°Label | Pack gr. | Passager | Passager | Cargo | Cargo | note | EQ |
|---|---|---|---|---|---|---|---|---|---|
| | 8 | - | III | 852 | 5L | 856 | 60 | A3 A803 | E1 |
| | 8 | - | III | Y841 | 1L | - | - | A3 A803 | E1 |

*For limited quantities, see part 2.7 of the OACI/IATA and chapter 3.4 of the ADR and IMDG.*

*For excepted quantities, see part 2.6 of the OACI/IATA and chapter 3.5 of the ADR and IMDG.*

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

*No data available.*

## SECTION 15: REGULATION INFORMATION

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

**- Classification and labeling information included in section 2:**

*The following regulations have been used:*

- *EU Regulation No. 1272/2008 amended by EU Regulation No. 487/2013.*
- *EU Regulation No. 1272/2008 amended by EU Regulation No. 758/2013.*
- *EU Regulation No. 1272/2008 amended by EU Regulation No. 944/2013.*
- *EU Regulation No. 1272/2008 amended by EU Regulation No. 605/2014*

**- Container information:**

*No data available.*

**- Particular provisions :**

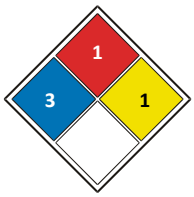
*No data available.*

**- Labeling for detergents (EC Regulation No. 648/2004, 907/2006):**

*- 5% or more, but less than 15%: EDTA and salts*

**- Standardized American system for the identification of hazards presented by the product in view of emergency procedures (NFPA 704):**

- *NFPA 704, Labeling: Health=3 Inflammability=1 Instability/Reactivity= 1 Specific Risk=none*




**15.2. Chemical safety assessment**

*No data available.*

## SECTION 16: OTHER INFORMATION

*Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.*
*The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.*
*It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.*
*The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.*

**Wording of the phrases mentioned in section 3:**

| | |
|---|---|
| *H290* | *May be corrosive to metals.* |
| *H302* | *Harmful if swallowed.* |
| *H314* | *Causes severe skin burns and eye damage.* |
| *H315* | *Causes skin irritation.* |
| *H318* | *Causes serious eye damage.* |
| *H332* | *Harmful if inhaled.* |

**Abbreviations:**

*ADR: European agreement concerning the international carriage of dangerous goods by Road.*
*IMDG: International Maritime Dangerous Goods.*
*IATA: International Air Transport Association.*
*ICAO: International Civil Aviation Organization*
*RID: Regulations concerning the International carriage of Dangerous goods by rail.*
*Ghs05: Corrosion.*



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