

## SAFETY DATA SHEET

## T-20

The safety data sheet is in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

**SECTION 1: Identification of the substance / mixture and of the company / undertaking**

|               |            |
|---------------|------------|
| Date issued   | 26.02.2014 |
| Revision date | 29.03.2021 |

**1.1. Product identifier**

|              |                           |
|--------------|---------------------------|
| Product name | T-20                      |
| Article no.  | 1476084, 1476086, 1476088 |

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

|  |                                       |
|--|---------------------------------------|
| Use of the substance / mixture                 | Cleaning agent. Hard surface cleaner. |
| The chemical can be used by the general public | No                                    |
| The chemical is used by general public only    | No                                    |

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

|                  |  |
|------------------|--|
| Company name     | Tandur h.f.  |
| Office address   | Hestháis 12  |
| Postcode         | 110  |
| City             | Reykjavík  |
| Country          | ICELAND  |
| Telephone number | 00354 510 1200   |
| Email            | <a href="mailto:tandur@tandur.is">tandur@tandur.is</a> |
| Website          | <a href="http://www.tandur.is">www.tandur.is</a>       |

**1.4. Emergency telephone number**

|                     |   |
|---------------------|---|
| Emergency telephone | Telephone number: 112<br>Description: EMERGENCY#                |
|                     | Telephone number: (+354)-543-2222<br>Description: POISON CENTER |

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification according to  
Regulation (EC) No 1272/2008  
[CLP / GHS]

Skin Corr. 1A; H314

### 2.2. Label elements

#### Hazard pictograms (CLP)



Signal word

Danger

Hazard statements

H314 Causes severe skin burns and eye damage.

Precautionary statements

P260 Do not breathe dust / fume / gas / mist / vapours / spray.  
P264 Wash hands thoroughly after handling.  
P280 Wear protective gloves / protective clothing / eye protection / face protection.  
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303+P361+P353 IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.  
P363 Wash contaminated clothing before reuse.  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P310 Immediately call a POISON CENTER or doctor / physician.  
P321 Specific treatment (see on this label).  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P405 Store locked up.  
P501 Dispose of contents / container to a certified recipient of hazardous/toxic waste.

### 2.3. Other hazards

PBT / vPvB

This product does not contain any PBT or vPvB substances.

## SECTION 3: Composition / information on ingredients

### 3.2. Mixtures

| Substance                        | Identification   | Classification                             | Contents      | Notes |
|----------------------------------|--|--|---------------|-------|
| Tetrapotassium pyrophosphate     | CAS No.: 7320-34-5<br>EC No.: 230-785-7                                    | Eye Irrit. 2; H319                         | 1 - 5 %       |       |
| Sodium metasilicate pentahydrate | CAS No.: 10213-79-3<br>EC No.: 2299129<br>REACH Reg. No.: 01-2119449811-37 | Skin Corr 1B<br>Eye Dam. 1<br>Met. Corr. 1 | 1 - 5 % wt/wt |       |

## SECTION 4: First aid measures

## 4.1. Description of first aid measures

|  |  |
|--|--|
| General  | Call a POISON CENTER or doctor/physician if you feel unwell. Show this SDS.  |
| Inhalation   | If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if any discomfort continues.   |
| Skin contact   | Flush skin thoroughly with water. If skin irritation occurs: Get medical advice/attention.   |
| Eye contact  | Promptly wash eyes with plenty of water while lifting the eye lids. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately! Continue flushing during transport to hospital. |
| Ingestion  | Rinse mouth thoroughly. Drink a few glasses of water or milk. Get immediate medical advice/attention.  |
| Recommended personal protective equipment for first aid responders | Wear protective gloves and eye protection. See section 8.2   |

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

|                                  |   |
|----------------------------------|---|
| Information for health personnel | CORROSIVE: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| Acute symptoms and effects       | May cause severe eye damage. See further section 11.1 under "Potential Acute Effects"   |

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

# SECTION 5: Firefighting measures

## 5.1. Extinguishing media

|                              |  |
|------------------------------|--|
| Suitable extinguishing media | Water spray, foam, dry powder or carbon dioxide. |
|------------------------------|--|

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

|                               |   |
|-------------------------------|---|
| Fire and explosion hazards    | No unusual fire or explosion hazards noted. |
| Hazardous combustion products | Not known.                                  |

## 5.3. Advice for firefighters

|                               |   |
|-------------------------------|---|
| Personal protective equipment | Wear respiratory protection. Wear protective gloves / protective clothing / eye protection / face protection. |
| Fire fighting procedures      | Fight fire with normal precautions from a reasonable distance.  |

# SECTION 6: Accidental release measures

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

|                               |  |
|-------------------------------|--|
| General measures              | Stop leak if safe to do so.  |
| Personal protection measures  | Wear protective gloves / protective clothing / eye protection / face protection. |
| Hazardous combustion products | Not known.   |

|                          |   |
|--------------------------|---|
| For emergency responders | Wear protective clothing as described in Section 8 of this safety data sheet.<br>Call a POISON CENTER or doctor/physician if you feel unwell. |
|--------------------------|---|

## 6.2. Environmental precautions

|                                      |   |
|--------------------------------------|---|
| Environmental precautionary measures | Avoid release to the environment. Collect and dispose of spillage as indicated in section 13. |
|--------------------------------------|---|

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

|             |                              |
|-------------|------------------------------|
| Containment | Store in a closed container. |
|-------------|------------------------------|

## 6.4. Reference to other sections

|                    |   |
|--------------------|---|
| Other instructions | See section 8 and 13 for further details. |
|--------------------|---|

# SECTION 7: Handling and storage

## 7.1. Precautions for safe handling

|          |  |
|----------|--|
| Handling | Provide easy access to water supply and eye wash facilities. |
|----------|--|

## Protective safety measures

|  |  |
|--|--|
| Preventitive measures to protect the environment | Prevent the product to reach sewage water or drainage system undiluted or unneutralized. Collect spillage if possible. |
| Advice on general occupational hygiene           | Private clothes and working clothes should be kept separately.   |

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

|         |   |
|---------|---|
| Storage | Alkalis. Avoid contact with skin and eyes. Keep away from food, drink and animal feeding stuffs. Keep container tightly closed. Keep in original container. Store protected from acids. |
|---------|---|

## Conditions for safe storage

|  |                                  |
|--|----------------------------------|
| Technical measures and storage conditions  | Alkalis.                         |
| Requirements for storage rooms and vessels | Keep only in original container. |
| Advice on storage compatability            | Alkalis.                         |
| Storage temperature                        | Value: ~ 20 °C                   |

## 7.3. Specific end use(s)

# SECTION 8: Exposure controls / personal protection

## 8.1. Control parameters

| Substance                    | Identification     | Exposure limits | TWA Year |
|------------------------------|--------------------|-----------------|----------|
| Tetrapotassium pyrophosphate | CAS No.: 7320-34-5 |                 |          |

Sodium metasilicate  
pentahydrate

CAS No.: 10213-79-3

## DNEL / PNEC

|           |   |
|-----------|---|
| Substance | Tetrapotassium pyrophosphate  |
| DNEL      | <p><b>Group:</b> Worker<br/> <b>Route of exposure:</b> Long term (repeated) - Inhalation - Systemic effect<br/> <b>Value:</b> 44 mg/m<sup>3</sup></p> <p><b>Group:</b> Consumer<br/> <b>Route of exposure:</b> Long term (repeated) - Inhalation - Systemic effect<br/> <b>Value:</b> 10,87 mg/m<sup>3</sup></p>  |
| PNEC      | <p><b>Route of exposure:</b> Sewage treatment plant STP<br/> <b>Value:</b> 50 mg/l</p> <p><b>Route of exposure:</b> Water<br/> <b>Value:</b> 0,005 mg/l<br/> <b>Reference:</b> Marine water</p> <p><b>Route of exposure:</b> Water<br/> <b>Value:</b> 0,05 mg/l<br/> <b>Reference:</b> Fresh water</p>  |
| Substance | Sodium metasilicate pentahydrate  |
| DNEL      | <p><b>Group:</b> Worker<br/> <b>Route of exposure:</b> Long term (repeated) - Inhalation - Systemic effect<br/> <b>Value:</b> 6,22 mg/m<sup>3</sup></p> <p><b>Group:</b> Consumer<br/> <b>Route of exposure:</b> Long term (repeated) - Inhalation - Systemic effect<br/> <b>Value:</b> 1,55 mg/m<sup>3</sup></p> <p><b>Group:</b> Worker<br/> <b>Route of exposure:</b> Long term (repeated) - Dermal - Systemic effect<br/> <b>Value:</b> 1,49 mg/kg bw/d</p> <p><b>Group:</b> Consumer<br/> <b>Route of exposure:</b> Long term (repeated) - Oral - Systemic effect<br/> <b>Value:</b> 0,74 mg/kg bw/d</p> <p><b>Group:</b> Consumer<br/> <b>Route of exposure:</b> Long term (repeated) - Dermal - Systemic effect<br/> <b>Value:</b> 0,74 mg/kg bw/d</p> |
| PNEC      | <p><b>Route of exposure:</b> Sewage treatment plant STP<br/> <b>Value:</b> 1000 mg/l</p> <p><b>Route of exposure:</b> Water<br/> <b>Value:</b> 1 mg/l<br/> <b>Reference:</b> Marine water</p> <p><b>Route of exposure:</b> Water<br/> <b>Value:</b> 7,5 mg/l<br/> <b>Reference:</b> Fresh water</p>   |

## 8.2. Exposure controls

Limitation of exposure on workplace

Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. Protective gloves and goggles are recommended. An eye wash bottle must be available at the work site.

### Safety signs



### Precautionary measures to prevent exposure

Instruction on measures to prevent exposure

Secure access of workers to safety information.

Organisational measures to prevent exposure

Avoid direct contact and/or splashes where possible. Train personnel.

Technical measures to prevent exposure

Where possible: use through foam systems and cover open containers. Use safety glasses/goggles and protective clothing.

### Eye / face protection

Eye protection

Use approved safety glasses, goggles or face shield. Safety glasses should have side shields.

Suitable eye protection

Safety glasses should have side shields.

Additional eye protection measures

Provide easy access to water supply and eye wash facilities.

Reference to relevant standard

EN 166

### Hand protection

Hand protection

Chemical resistant gloves required for prolonged or repeated contact.

Skin- / hand protection, short term contact

Nitril rubber:  
Penetration time:  $\geq 30$  min  
Material thickness:  $\geq 0,4$  mm

Skin- / hand protection, long term contact

Butylrubber:  
Penetration time:  $\geq 480$  min  
Material thickness:  $\geq 0,7$  mm

Suitable gloves type

Butyl rubber. Nitrile. Chloroprene rubber. Polyvinyl chloride (PVC). Rubber (natural, latex).

Thickness of glove material

Value:  $\geq 0,4$  mm

Reference to relevant standard

Chemical-resistant protective gloves (EN 374).

### Skin protection

Skin protection (except hands)

Wear suitable protective clothing as protection against splashing or contamination.

## Respiratory protection

### Respiratory protection

Under normal conditions of use respiration protection should not be required. In case of inadequate ventilation or risk of inhalation of vapours, use suitable respiratory equipment with combination filter (type A2/P2).

## Appropriate environmental exposure control

### Environmental exposure controls

Should not reach sewage or drainage system undiluted or unneutralized.

## SECTION 9: Physical and chemical properties

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

|                               |  |
|-------------------------------|--|
| Physical state                | Clear liquid.  |
| Colour                        | Straw.   |
| Odour                         | Almost odourless.  |
| pH                            | Status: In delivery state<br>Value: > 12,5<br>Temperature: ~ 20 °C |
| Melting point / melting range | Comments: Not determined.  |
| Boiling point / boiling range | Comments: Not determined.  |
| Flash point                   | Comments: Not relevant. Contains no flammable material.            |
| Vapour density                | Comments: Not determined.  |
| Relative density              | Value: = 1,10 g/ml<br>Temperature: ~ 20 °C                         |
| Solubility in water           | Fully miscible.  |
| Viscosity                     | Comments: Not determined.  |

### 9.2. Other information

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

|            |   |
|------------|---|
| Reactivity | There are no known reactivity hazards associated with this product. |
|------------|---|

### 10.2. Chemical stability

|           |  |
|-----------|--|
| Stability | The mixture is stable under normal storage and use conditions. |
|-----------|--|

### 10.3. Possibility of hazardous reactions

|                                    |   |
|------------------------------------|---|
| Possibility of hazardous reactions | No hazardous reactions known under normal storage and use conditions. |
|------------------------------------|---|

### 10.4. Conditions to avoid

|                     |   |
|---------------------|---|
| Conditions to avoid | None known under normal storage and use conditions. |
|---------------------|---|

## 10.5. Incompatible materials

|                    |                |
|--------------------|----------------|
| Materials to avoid | Acid reactive. |
|--------------------|----------------|

## 10.6. Hazardous decomposition products

|                                  |                                      |
|----------------------------------|--------------------------------------|
| Hazardous decomposition products | No hazardous decomposition products. |
|----------------------------------|--------------------------------------|

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

|                |   |
|----------------|---|
| Substance      | Tetrapotassium pyrophosphate  |
| Acute toxicity | <p><b>Type of toxicity:</b> Acute<br/> <b>Effect tested:</b> LD50<br/> <b>Route of exposure:</b> Oral<br/> <b>Value:</b> &gt; 1000 mg/kg<br/> <b>Animal test species:</b> Mouse</p> <p><b>Type of toxicity:</b> Acute<br/> <b>Effect tested:</b> LC50<br/> <b>Route of exposure:</b> Inhalation.<br/> <b>Duration:</b> 4 h<br/> <b>Value:</b> &gt; 1,1 mg/l<br/> <b>Animal test species:</b> Rat</p>  |
| Substance      | Sodium metasilicate pentahydrate  |
| Acute toxicity | <p><b>Type of toxicity:</b> Acute<br/> <b>Effect tested:</b> LD50<br/> <b>Route of exposure:</b> Oral<br/> <b>Value:</b> ~ 1152-1349 mg/kg bw<br/> <b>Animal test species:</b> Rat</p> <p><b>Type of toxicity:</b> Acute<br/> <b>Effect tested:</b> LC50<br/> <b>Route of exposure:</b> Inhalation.<br/> <b>Value:</b> &gt; 2,06 g/m3</p> <p><b>Type of toxicity:</b> Acute<br/> <b>Effect tested:</b> LD50<br/> <b>Route of exposure:</b> Dermal<br/> <b>Value:</b> &gt; 5000 mg/kg bw</p> |

### Other information regarding health hazards

|              |  |
|--------------|--|
| Inhalation   | May cause respiratory irritation.  |
| Skin contact | Irritating to skin.  |
| Eye contact  | Corrosive. Risk of serious damage to eyes. Immediate first aid is necessary.                       |
| Ingestion    | Ingestion may cause severe irritation of the mouth, the oesophagus and the gastrointestinal tract. |
| Mutagenicity | No information available on mixture. However, studies have not shown any                           |



|                                    |   |
|------------------------------------|---|
| Carcinogenicity, other information | indication of mutagenicity of individual substances in the mixture.<br>No information or data available on mixture. However, there is no evidence of carcinogenicity on individual substances in the mixture. |
| Reproductive toxicity              | No information or data available on mixture. However, studies have not shown any indication of reproductive toxicity for individual substances in the mixture.  |

## 11.2 Other information

# SECTION 12: Ecological information

## 12.1. Toxicity

|                              |   |
|------------------------------|---|
| Substance                    | Sodium metasilicate pentahydrate  |
| Aquatic toxicity, fish       | <b>Value:</b> = 210 mg/l<br><b>Test duration:</b> 96 h<br><b>Species:</b> Brachydanio rerio |
| Substance                    | Tetrapotassium pyrophosphate  |
| Aquatic toxicity, algae      | <b>Value:</b> > 100 mg/l<br><b>Test duration:</b> 72 h                                      |
| Substance                    | Sodium metasilicate pentahydrate  |
| Aquatic toxicity, crustacean | <b>Value:</b> = 1700 mg/l<br><b>Test duration:</b> 48 h<br><b>Species:</b> Daphnia magna    |

## 12.2. Persistence and degradability

|   |  |
|---|--|
| Persistence and degradability, comments | No information available on mixture. However, individual substances are all classified as readily biodegradable. |
|---|--|

## 12.3. Bioaccumulative potential

|                           |   |
|---------------------------|---|
| Bioaccumulative potential | The product does not contain any substances expected to be bioaccumulating. |
|---------------------------|---|

## 12.4. Mobility in soil

## 12.5. Results of PBT and vPvB assessment

|                         |   |
|-------------------------|---|
| PBT assessment results  | Not Classified as PBT/vPvB by current EU criteria.                                |
| Substance               | Tetrapotassium pyrophosphate  |
| PBT assessment results  | Not relevant.   |
| Substance               | Sodium metasilicate pentahydrate  |
| PBT assessment results  | Not Classified as PBT/vPvB by current EU criteria.                                |
| vPvB evaluation results | No data available on mixture. Contains no PBT or vPvB substances. See section 2.3 |

## 12.6. Endocrine disrupting properties

## 12.7. Other adverse effects

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

|   |  |
|---|--|
| Specify the appropriate methods of disposal | Avoid release to the environment. Dispose of waste and residues in accordance with local authority requirements. |
| Relevant waste regulation                   | Regulation no. 737/2003  |
| Hazardous waste product                     | Avoid release to the environment.  |
| Hazardous waste packing                     | Avoid release to the environment.  |
| Product classified as hazardous waste       | Yes  |
| Packaging classified as hazardous waste     | Yes  |
| EWC waste code                              | EWC: 070601 aqueous washing liquids and mother liquors   |
| National regulations                        | Regulation 184/2002<br>Regulation 786/1999   |
| Other information                           | Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority.                      |

### SECTION 14: Transport information

#### 14.1. UN number

|             |      |
|-------------|------|
| ADR/RID/ADN | 3253 |
| IMDG        | 3253 |
| ICAO/IATA   | 3253 |

#### 14.2. UN proper shipping name

|             |                         |
|-------------|-------------------------|
| ADR/RID/ADN | DISODIUM TRIOXOSILICATE |
| IMDG        | DISODIUM TRIOXOSILICATE |
| ICAO/IATA   | DISODIUM TRIOXOSILICATE |

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

|             |   |
|-------------|---|
| ADR/RID/ADN | 8 |
| IMDG        | 8 |
| ICAO/IATA   | 8 |

#### 14.4. Packing group

|             |     |
|-------------|-----|
| ADR/RID/ADN | III |
| IMDG        | III |
| ICAO/IATA   | III |

**14.5. Environmental hazards****14.6. Special precautions for user****14.7. Maritime transport in bulk according to IMO instruments****ADR/RID Other information**

|            |    |
|------------|----|
| Hazard No. | 80 |
|------------|----|

**IMDG Other information**

|     |          |
|-----|----------|
| EmS | F-A, S-B |
|-----|----------|

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations / legislation specific for the substance or mixture****Legislation and regulations**

This safety datasheet is in compliance with the following EU legislation and its adaptations - as far as applicable:  
 Regulation 1907/2006 and later 750/2008 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). Amendments on Annex II of the REACH regulation with EU regulation 453/2010.  
 Regulation (EC) No. 1272/2008 on classification, labelling and packaging of substances and mixtures which replaces EU legislations 67/548/EEC and 1999/45/EC and changes regulation No. 1907/2006.

**15.2. Chemical safety assessment**

|                                      |    |
|--------------------------------------|----|
| Chemical safety assessment performed | No |
|--------------------------------------|----|

**SECTION 16: Other information****List of relevant H-phrases (Section 2 and 3)**

H314 Causes severe skin burns and eye damage.  
 H319 Causes serious eye irritation.

**Abbreviations and acronyms used**

CLP: Classification, labelling and packaging  
 GHS: Globally Harmonized System.  
 DNEL: Derived No Effect Limit (afleidd áhrifaleysismörk).  
 PBT: Persistent, Bioaccumulative and Toxic  
 PNEC: Predicted No Effect Concentration  
 vPvB: Very Persistent and very Bioaccumulative  
 REACH: Registration, Evaluation, Authorization and Restriction of Chemicals.

**Information added, deleted or revised**

Liður 2: Viðeigandi varnaðarsetningum bætt við. Hættusetning breytt í H314 í staðinn fyrir H318 við endurskoðun innihaldsefna.  
 Liður 3: innihaldsefni fjarlægð þar sem sum hver höfðu ekki áhrif á hættusetningu efnablöndunnar.

**Version**

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**Prepared by**

Birgir Ö. Guðmundsson (Ph.D Chemistry); email: birgir@tandur.is