

# SAFETY DATA SHEET

according to ChemO 2015 - SR 813.11



**PEFAKIT® TAFI** **800186**

**R2 TAFI Start Reagent** **802213**

## 1 Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

|                |   |
|----------------|---|
| Trade name     | TAFI Start Reagent<br>Reagent R2 of Pefakit® TAFI |
| Article number | 802213 (Reagent)<br>800186 (Assay)                |

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

|  |  |
|--|--|
| Application of the substance / the mixture | Reagent of research assay Pefakit® TAFI.<br>For research use only. |
|--|--|

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

|                                     |  |
|-------------------------------------|--|
| Manufacturer/Supplier               | DSM Nutritional Products Ltd Branch Pentapharm<br>Dornacherstrasse 112<br>CH-4147 Aesch BL / Switzerland<br>Phone +41 61 706 48 48<br>Fax +41 61 706 48 00 |
| Further information obtainable from | pentapharm@pentapharm.com  |

### 1.4 Emergency telephone number

Tox Info Suisse : +41 44 251 51 51 (24h; 7 days a week)

## 2 Hazards identification

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008  
The product is not classified according to the CLP regulation.

### 2.2 Label elements

|   |      |
|---|------|
| Labelling according to Regulation (EC) No 1272/2008 | Void |
| Hazard pictograms                                   | Void |
| Signal word   | Void |
| Hazard statements                                   | Void |

### 2.3 Other hazards

#### Results of PBT and vPvB assessment

PBT: According to current knowledge, the product contains no PBT substance.

vPvB: According to current knowledge, the product contains no vPvB substance.

# SAFETY DATA SHEET

according to ChemO 2015 - SR 813.11



**PEFAKIT® TAFI** 800186

**R2 TAFI Start Reagent** 802213

## 3 Composition/information on ingredients

### 3.2 Chemical characterization

#### Description

Mixture of substances listed below with nonhazardous additions.

#### Dangerous components

Void

#### SVHC

According to current knowledge no SVHC contained.

#### Additional information

For the wording of the listed hazard phrases refer to section 16.

## 4 First aid measures

### 4.1 Description of first aid measures

#### General information

No special measures required.

#### After inhalation

Remove person to fresh air and keep comfortable for breathing.

If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

#### After skin contact

Wash with plenty of soap and water.

If skin irritation or rash occurs: Get medical advice/attention.

#### After eye contact

Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

#### After swallowing

Immediately call a POISON CENTRE/doctor.

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

No further relevant information available.

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

No further relevant information available.

## 5 Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

CO<sub>2</sub>, dry chemical powder, or appropriate foam.

# SAFETY DATA SHEET

according to ChemO 2015 - SR 813.11



**PEFAKIT® TAFI**

**800186**

**R2 TAFI Start Reagent**

**802213**

## 5.2 Specific hazards arising from the substance or mixture

No further relevant information available.

## 5.3 Advice for firefighters

### **Protective equipment**

Wear self-contained respiratory protective device.

Wear protective clothing to prevent contact with skin and eyes.

## 6 **Accidental release measures**

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

Avoid skin and eye contact and particle inhalation.

### 6.2 Environmental precautions

Do not allow to enter sewers/surface or ground water.

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

Pick up mechanically.

Collect in suitable containers.

Clean the affected area carefully and ensure adequate ventilation.

Avoid dust formation.

### 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## 7 **Handling and storage**

### 7.1 Precautions for safe handling

Avoid skin and eye contact and particle inhalation.

#### **Information about fire - and explosion protection**

No special measures required.

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

#### **Storage**

#### **Requirements to be met by storerooms and receptacles**

No special requirements.

#### **Information about storage in one common storage facility**

Not required.

#### **Further information about storage conditions**

Store the product in a dry place protected from light at a temperature between +2 to +8°C.

PEFAKIT® TAFI

800186

R2 TAFI Start Reagent

802213

**7.3 Specific end use(s)**

No further relevant information available.

**8 Exposure controls/personal protection****8.1 Control parameters**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

**Additional information**

The lists valid during the making were used as basis.

**8.2 Exposure controls****Personal protective equipment****General protective and hygienic measures**

The usual precautionary measures are to be adhered to when handling chemicals.

Ensure good ventilation/exhaustion at the workplace.

Keep away from foodstuffs, beverages and feed.

Avoid contact with the eyes and skin.

Wash hands before breaks and at the end of work.

**Respiratory protection**

Use suitable respiratory protective device in case of insufficient ventilation

Respiratory protection must be compliant with the specifications of Directive 89/686/EEC and be in accordance with the EN standards resulting thereof.

**Protection of hands**

Protective gloves

**Material of gloves**

Protective gloves must be compliant with the specifications of EU Directive 89/686/EEC and be in accordance with the standard EN374. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

**Eye protection**

Safety glasses

# SAFETY DATA SHEET

according to ChemO 2015 - SR 813.11



**PEFAKIT® TAFI**

**800186**

**R2 TAFI Start Reagent**

**802213**

Protective goggles must be compliant with the specifications of Directive 89/686 / EEC and be in accordance with the standard EN166.

**Limitation and supervision of exposure into the environment**

Do not allow product to reach sewage system or any water course.

## 9 Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|   |   |
|---|---|
| <b>General Information</b>              |   |
| <b>Appearance</b>                       |   |
| Form                                    | Lyophilizate                                  |
| Colour                                  | Off-white                                     |
| Odour                                   | Not determined.                               |
| Odour threshold                         | Not determined.                               |
| pH-value                                | Not determined.                               |
| <b>Change in condition</b>              |   |
| Melting point/Melting range             | Not determined.                               |
| Boiling point/Boiling range             | Not determined.                               |
| Flash point                             | Not applicable.                               |
| Flammability (solid, gaseous)           | Not determined.                               |
| Ignition temperature                    | Not determined.                               |
| Decomposition temperature               | Not determined.                               |
| Self-igniting                           | Product is not self-igniting.                 |
| Danger of explosion                     | Product does not present an explosion hazard. |
| <b>Explosion limits</b>                 |   |
| Lower                                   | Not determined.                               |
| Upper                                   | Not determined.                               |
| Oxidising properties                    | Not determined.                               |
| Vapour pressure                         | Not applicable.                               |
| <b>Density</b>                          |   |
| Relative density                        | Not determined.                               |
| Vapour density                          | Not determined.                               |
| Evaporation rate                        | Not applicable.                               |
| <b>Solubility in / Miscibility with</b> |   |
| Water                                   | Soluble.                                      |
| Partition coefficient (n-octanol/water) | Not determined.                               |
| <b>Viscosity</b>                        |   |
| Dynamic                                 | Not applicable.                               |
| Kinematic                               | Not applicable.                               |

# SAFETY DATA SHEET

according to ChemO 2015 - SR 813.11



**PEFAKIT® TAFI**

**800186**

**R2 TAFI Start Reagent**

**802213**

## 9.2 Other information

No further relevant information available.

## 10 Stability and reactivity

### 10.1 Reactivity

No further relevant information available.

### 10.2 Chemical stability

No information available.

**Thermal decomposition / conditions to be avoided**

No decomposition if used according to specifications.

### 10.3 Possibility of hazardous reactions

No dangerous reactions known.

### 10.4 Conditions to avoid

Heat may cause this product to decompose.

Avoid freezing.

### 10.5 Incompatible materials

No further relevant information available.

### 10.6 Hazardous decomposition products

Nature of decomposition products not known.

## 11 Toxicological information

### 11.1 Information on toxicological effects

#### **Acute toxicity**

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

#### **Skin corrosion/irritation**

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

#### **Serious eye damage/irritation**

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

#### **Respiratory or skin sensitisation**

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

#### **Germ cell mutagenicity**

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

#### **Carcinogenicity**

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

#### **Reproductive toxicity**

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

# SAFETY DATA SHEET

according to ChemO 2015 - SR 813.11



**PEFAKIT® TAFI**

**800186**

**R2 TAFI Start Reagent**

**802213**

## **STOT-single exposure**

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

## **STOT-repeated exposure**

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

## **Aspiration hazard**

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

## **12 Ecological information**

### **12.1 Toxicity**

#### **Aquatic toxicity**

Based on the ingredients not classified as harmful for the environment.

### **12.2 Persistence and degradability**

No further relevant information available.

### **12.3 Bioaccumulative potential**

No further relevant information available.

### **12.4 Mobility in soil**

No further relevant information available.

### **12.5 Results of PBT and vPvB assessment**

#### **PBT**

According to current knowledge, the product contains no PBT substance.

#### **vPvB**

According to current knowledge, the product contains no vPvB substance.

### **12.6 Other adverse effects**

No further relevant information available.

## **13 Disposal considerations**

### **13.1 Waste treatment methods**

Recommendation: Disposal must be made according to official regulations.

| Ordinance of the Federal Department of the Environment, Transport, Energy and Communications (DETEC) on Lists for Waste Traffic (SR 814.610.1). |   |
|---|---|
| 18 00 00  | WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH                 |
| 18 01 00  | Wastes from natal care, diagnosis, treatment or prevention of disease in humans |
| 18 01 06  | Chemicals consisting of or containing dangerous substances                      |

Classification: S = hazardous waste

#### **Uncleaned packaging**

Recommendation: Disposal must be made according to official regulations.

# SAFETY DATA SHEET

according to ChemO 2015 - SR 813.11



**PEFAKIT® TAFI** 800186

**R2 TAFI Start Reagent** 802213

## 14 Transport information

### 14.1 UN-number

ADR/ADN, ADN, IMDG, IATA Void

### 14.2 UN Proper shipping name

ADR/ADN, ADN, IMDG, IATA Void

### 14.3 Transport hazard class(es)

ADR/ADN, ADN, IMDG, IATA  
Class Void

### 14.4 Packing group

ADR/ADN, IMDG, IATA Void

### 14.5 Environmental hazards

Not applicable.

### 14.6 Special precautions for user

Not applicable.

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

Not applicable.

UN "Model Regulation" Void

## 15 Regulatory information

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

Directive 2012/18/EU

Named dangerous substances - ANNEX I

None of the ingredients is listed.

#### National regulations

Ordinance on Protection against Major Accidents (Major Accidents Ordinance, MAO; SR 814.012)  
Annex 1: Volume threshold according to MAO in kg; without limitation (Source: FOEN - List 2015 - Volume thresholds in accordance with the Major Accidents Ordinance / Volume Threshold Calculator).

Chemical Risk Reduction Ordinance (ORRChem; SR 814.81): The product contains no substances subject to authorization according to Annex 1.17 in concentrations  $\geq 0.1\%$  w/w or above specific concentration limits (if  $< 0.1\%$  w/w).

Chemical Risk Reduction Ordinance (ORRChem; SR 814.81):  
The preparation or substances contained therein are not subject to any prohibition or restriction in accordance with Annexes 1 and 2.

Chemicals Ordinance (ChemO; SR 813.11):  
The product contains no substances of very high concern according to Annex 3 in concentrations  $\geq 0.1\%$  w/w.

**Waterhazard class:** Water hazard class: class B (self-classification).

**OVOC (CH)** 0.00 %



# SAFETY DATA SHEET

according to ChemO 2015 - SR 813.11



**PEFAKIT® TAFI** **800186**

**R2 TAFI Start Reagent** **802213**

## 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

## 16 Other information

All information and instructions provided in this Safety Data Sheet are based on the current state of scientific and technical knowledge at the date indicated on this Safety Data Sheet. DSM Nutritional Products Ltd Branch Pentapharm shall not be held responsible for any defect in the product covered by this Safety Data Sheet, should the existence of such a defect not be detectable considering the current state of scientific and technical knowledge.

### Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative