

	SAFETY DATA SHEET FEPREN TP (nanoform) according to Regulation No. 1907/2006 (REACH) and Commission Regulation (EU) 2020/878	Version: 1.1 Issue date: 2024-08-09 Revision date:
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Chemical name/ trade name: **FEPREN TP (nano form)**

Product code: Precheza

CAS No: 1309-37-1

EINECS No: 215-168-2

Registration number: 01-2119457614-35-XXXX

Producer: **PRECHEZA a.s.**

Address: **nábř. Dr. Edvarda Beneše 1170, 75002, Přerov,**

Distributor: **PRECHEZA a.s.**

Address: **Přerov, 75002, nábř. Dr. Edvarda Beneše 1170**

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

Intended use: Pigment. Dye. **Product names: TP200, TP200G**

Uses advised against: Based on the available data, they are not known.

1.3 Details of the supplier of the safety data sheet

Supplier of SDS: PRECHEZA a.s.

Address: nábř. Dr. Edvarda Beneše 1170, 75002, Přerov,

Identification No.: 26872307

Tel: 581252111

www: <http://www.precheza.cz>

Responsible person for this SDS: sds@precheza.cz



Harold Scholz & Co. GmbH
Ickerottweg 30
45665 Recklinghausen, Germany
+49 2361 9888-0
produktsicherheit@harold-scholz.de

1.4 Emergency telephone number

National Poisons Information Service (NPIS), Royal Infirmary of Edinburgh, Edinburgh EH16 4SA, United Kingdom, Tel.: +44 121 507 4123, 844 892 0111

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to the EC Regulation No. 1272/2008 (CLP):

The substance is not classified as hazardous according to Regulation No. 1272/2008.

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]:

Hazard pictogram(s): None.

Signal word(s): None.

Contain: Diiron trioxide

Hazard statement(s): None.

Precautionary statement(s): None.

Supplemental information:

2.3 Other hazards

Based on the results of the assessment, this substance is not PBT or vPvB

This product does not contain SVHC in a concentration of 0.1% by weight or higher.

This product does not contain endocrine disruptors in a concentration of 0.1% by weight or higher.

Respirable dust may be formed when the substance is used. Based on the available data, the substance does not meet the criteria for persistent, bioaccumulative and toxic or highly persistent and highly bioaccumulative substances and does not have endocrine disrupting properties.

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SECTION 3: Composition/information on ingredients

3.1 Substances

Name of the component	Content (weight %)	CAS EINECS Index N° Reg. Number	Classification according to Regulation (EC) No. 1272/2008 (CLP)	
Diiron trioxide	100	1309-37-1 215-168-2 01-2119457614-35-XXXX		

For full text of H-statements see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

4.1.1 General advice:

In case of persistent problems, call a doctor.

4.1.2 Inhalation:

Take the affected person to fresh air and keep him at rest in a position that facilitates breathing, do not let him walk. Secure him against cold, loosen his tight clothing, collar, tie or belt. Rinse his mouth and nose with water.

4.1.3 Skin contact:

Wash the affected area with soap and water. Remove all contaminated clothing and wash before reuse.

4.1.4 Eye contact:

Flush the victim's eye with a stream of running water. Open the eyelids and if the affected person has contact lenses, remove them. Rinse for at least 10 minutes from the inner corner of the eye to the outer corner.

4.1.5 Ingestion:

Do not induce vomiting. Rinse the victim's mouth with water and give him 2 to 3 dL of water to drink. Do not give anything by mouth if the victim is unconscious.

4.1.6 Protection of first aiders:

When providing first aid, it is essential to ensure both the rescue and the rescued safety.

4.2 Most important symptoms and effects, both acute and delayed

They are not known based on available data.

4.3 Indication of any immediate medical attention and special treatment needed

Not known based on available data.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Shower/water spray, foam, powder, CO2.

Unsuitable extinguishing media: Based on the available data, they are not known.

5.2 Special hazards arising from the substance or mixture

Based on the available data, it is not known. Hazardous combustion products: None known based on available data.

5.3 Advice for firefighters

Use appropriate personal protective equipment, see SECTION 8.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

No special measures or training are required. Use appropriate personal protective equipment, see SECTION 8. Prevent unauthorized access. Spilled wet cloth is slippery.

6.2 Environmental precautions

Close the place of leakage and prevent the substance from leaking into the surrounding environment, soil, waterways and sewers with suitable absorbent material (sand, gravel). Inform the relevant authorities if sewage, waterways, soil or atmosphere are contaminated.

6.3 Methods and material for containment and cleaning up

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See SECTION 13.

6.4 Reference to other sections

See SECTION 1 for emergency telephone numbers. See SECTION 8 for personal exposure controls. See SECTION 13 for disposal instructions.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Warning: Not known based on available data. Handling: Observe hygienic requirements for handling chemical substances and mixtures. Do not eat, drink, smoke or chew in the workplace. Remove contaminated clothing appropriately and wash before reuse. Wash your hands after work. Remove contaminated clothing and personal protective equipment before entering the dining area. Recommendations for users: Operating personnel must be qualified by education and training. Technical precautions: Keep production and processing lines closed to limit potential leaks. Use dust reduction equipment when filling transport containers. When handling large volumes of material, use special catch and clean tubs/sinks. If the product is packed in bags, apply local operational safety regulations for handling bags.

7.2 Conditions for safe storage, including any incompatibilities

Do not store outdoors, exposed to the elements. Avoid getting wet. Recommended packaging materials: Store in original packaging. Incompatible materials: Acids. Water and atmospheric humidity.

7.3 Specific end use(s)

Based on the available data, they are not known.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.1.1 Exposure limits: According to national legislation of target country.

Substance	CAS	Permissible exposure limits (mg/m³)	Maximum permissible concentration (mg/m³)	Note
No data available.				

Substances with Community Exposure Limits:

Substance	CAS	Limit values (mg/m³)		Note
		OEL	STEL	
No data available.				

8.1.2 DNEL
PNEC

DNEL and PNEC values for the other components of the mixture haven´t been determined.

8.1.3 Biological limit values

Substance	CAS No:	Indicator	Limit Value
No data available.			

8.2 Exposure controls

8.2.1 Technical measures

Workplaces and work procedures must be organized in such a way that direct contact with the mixture is excluded. Depending on local regulations, an assessment of the effectiveness of ventilation or other measures and/or the use of personal respiratory protective equipment may be required. EN 689 or locally valid regulations can be used as a reference standard for the assessment of inhalation exposure to chemical mixtures.

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8.2.2 Individual protection measures

Respiratory protection:

In case of dust formation, use a half mask with a B/P2 filter.

Hand protection:

Use protective gloves and protective clothing.

Eye / face protection:

Wear appropriate safety glasses or a face shield.

Skin protection:

Use protective gloves and protective clothing.

8.2.3 Thermal hazards:

Not known based on available data.

8.2.4 Environmental exposure controls:

Avoid release to the environment. Monitor emissions from ventilation and operating equipment to ensure compliance with environmental protection requirements. In some cases, it may be necessary to use scrubbers, filters or other technical equipment modifications to reduce emissions to the permissible limit.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Property	Value	Method	Note
Physical state:	A solid substance		
Colour:	Red		
Odour:	Not known based on available data.		
Odour threshold:	Not known based on available data.		
pH :	No data available.		
Melting point / freezing point (°C):	Melting point/Freezing point (°C, 1013 hPa): >1565		
Boiling point or initial boiling point and boiling range (°C):	No data available.		
Flash point (°C):	No data available.		
Evaporation rate:	No data available.		
Flammability (gases, liquids and solids):	Based on the available data, it is not known.		
Lower and upper explosion limit:	Not relevant based on available data.		
Vapour pressure (20 °C):	Not relevant based on available data.		
Vapour pressure (50 °C):	Not relevant based on available data.		
Relative vapour density:	Not relevant based on available data.		
Density and/or relative density (g/cm³, 20 °C):	5.2501		
Solubility (20 °C):	is slightly soluble in water (>1 µg/l)		
Partition coefficient n-octanol/water (log value):	Not relevant based on available data.		
Auto-ignition temperature (°C):	Not relevant based on available data.		
Decomposition temperature (°C):	Based on the available data, it is not known.		
Kinematic viscosity (40°C):	No data available.		
Refractive index (20 °C):	No data available.		
Oxidising properties:	No data available.		
Explosive properties:	No data available.		

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Particle characteristics:	Particle size distribution for TP200 and TP200G: Percentile D10 - typical value (nm) 37 , Percentile D50 - typical value (nm) 80 , Percentile D90 - typical value (nm) 145 , Typical particle length (nm) 107 , Typical ratio length/ width (:1) : 1.3 .		
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- 9.2 Other information**
VOC (%): No data available.
Dry matter content: No data available.
Additional information: No data available.

9.2.1 Information with regard to physical hazard classes
The product has no physical hazards.

9.2.2 Other safety characteristics
No data available.

SECTION 10: Stability and reactivity

- 10.1 Reactivity**
Based on the available data, there are no known hazards arising from the reactivity of the substance in case of recommended storage and use.
- 10.2 Chemical stability**
Based on available data, the substance is stable under normal conditions.
- 10.3 Possibility of hazardous reactions**
Based on the available data, it is not known.
- 10.4 Conditions to avoid**
Getting wet.
- 10.5 Incompatible materials**
Acids. Water and atmospheric humidity.
- 10.6 Hazardous decomposition products**
They are not known based on available data.

SECTION 11: Toxicological information

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

Diiron trioxide (CAS: 1309-37-1)
Acute toxicity

Test type	Results	Exposure	Tested organisms
key study	> 5 000 mg/kg bw, LD50	oral: gavage	rat
OECD 403, key study	5.05 mg/L air	inhalation: aerosol	rat

Serious eye damage / irritation

Test type	Results	Exposure	Tested organisms
OECD 405, key study	GHS criteria not met	Eye	rabbit

Skin corrosion / irritation

Test type	Results	Exposure	Tested organisms
OECD 404, key study	GHS criteria not met	Skin	rabbit

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Respiratory or skin sensitisation

Test type	Results	Exposure	Tested organisms
key study	not sensitising not sensitising	Skin	

STOT - repeated exposure

Test type	Results	Exposure	Tested organisms
OECD 408, key study	> 1 000 mg/kg bw/day (nominal), NOAEL	oral	rat
OECD 412, key study	10.1 mg/m³ air, NOAEL	inhalation	rat

Carcinogenicity

Test type	Results	Exposure	Tested organisms
	No data available.		

Germ cell mutagenicity

Test type	Results	Exposure	Tested organisms
key study	negative negative	oral: gavage	rat

Reproductive toxicity

Test type	Results	Exposure	Tested organisms
key study	> 201 mg/kg bw/day (actual dose received), NOAEL > 1 000 mg/kg bw/day (actual dose received), NOAEL > 1 000 mg/kg bw/day, NOAEL > 201 mg/kg bw/day, NOAEL		

Substance

Acute toxicity:	The product does not meet the criteria for classification.
Serious eye damage / irritation:	The product does not meet the criteria for classification.
Skin corrosion / irritation:	The product does not meet the criteria for classification.
Respiratory or skin sensitisation:	The product does not meet the criteria for classification.
STOT - single exposure:	The product does not meet the criteria for classification.
STOT - repeated exposure:	The product does not meet the criteria for classification.
Carcinogenicity:	The product does not meet the criteria for classification.
Germ cell mutagenicity:	The product does not meet the criteria for classification.
Reproductive toxicity:	The product does not meet the criteria for classification.
Aspiration hazard:	The product does not meet the criteria for classification.

11.2 Information on other hazards
Endocrine disrupting properties

This product does not contain endocrine disruptors in a concentration of 0.1% by weight or higher.

Other information

They are not known based on available data.

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SECTION 12: Ecological information

12.1 Toxicity

The product does not meet the criteria for classification.

Diiron trioxide (CAS: 1309-37-1)

Toxicity	Tested organisms	Results	Test type
Acute toxicity to fish		$\geq 10\,000$ mg/L, LC0 / 96 h	
Acute toxicity to invertebrates	<i>Daphnia magna</i>	$\geq 10\,000$ mg/L, EC0 / 48 h	
Acute toxicity to aquatic algae	<i>Raphidocelis subcapitata</i> (previous names: <i>Pseudokirchneriella subcapitata</i> , <i>Selenastrum capricornutum</i>)	≥ 20 mg/L, NOEC / 72 h > 20 mg/L, EC50 / 72 h	OECD 201

12.2 Persistence and degradability

Based on available data, the substance is not considered to be persistent and degradable.

Biotic degradation: No data are available for the substance.

12.3 Bioaccumulative potential

Not relevant based on available data.

log Kow / log Pow: No data are available for the substance.

Bioaccumulation: No data are available for the substance.

12.4 Mobility in soil

Based on available data, the substance is not considered to be mobile in soil.

12.5 Results of PBT and vPvB assessment

Based on the results of the assessment, this substance is not PBT or vPvB

12.6 Endocrine disrupting properties

This product does not contain endocrine disruptors in a concentration of 0.1% by weight or higher.

12.7 Other adverse effects

They are not known based on available data.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

13.1.1 Catalogue No. of substance/mixture waste:

06 04 99 Wastes not otherwise specified

13.1.2 Catalog No. of packaging waste:

15 01 10 packaging containing residues of or contaminated by hazardous substances

13.1.3 Recommended procedure for substance/mixture waste disposal:

Product residues/degraded product: Check for possible re-use. Package, label and dispose or recycle in accordance with national and local regulations. In the case of larger volumes, consult the manufacturer for handling.

13.1.4 Recommended procedure for packaging disposal:

Contaminated packaging: Based on available data, they are not considered hazardous waste. If you pass on contaminated packaging, the recipient must be made aware of the risks arising from material residues. If recycling is not possible, dispose of them in accordance with national and local regulations. Disposal: For disposal within the EU, use EWL (European Waste List) code 06 04 99.

13.1.5 Physical / chemical properties that may affect waste treatment method:

No data available.

13.1.6 Sewage disposal-relevant information:

Protect against weathering. Prevent leakage of waste into the water / soil / sewage system. In case of leakage, inform the competent authorities.

13.1.7 Other disposal recommendations:

Dispose of in accordance with applicable legislation.

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SECTION 14: Transport information

	Type of transport	Land transport ADR / RID	Sea transport IMDG	Air Transport ICAO / IATA
14.1	UN number or ID number	There is no dangerous good in terms of transport.	There is no dangerous good in terms of transport.	There is no dangerous good in terms of transport.
14.2	UN proper shipping name			
14.3	Transport hazard class(es)			
	Hazard identification number	-	-	-
	Labels			
14.4	Packing group			

- 14.5

Environmental hazards

No data available.
- 14.6

Special precautions for user

Not relevant based on available data.
- 14.7

Maritime transport in bulk according to IMO instruments

The substance is not intended for bulk transport according to IMO instruments.

SECTION 15: Regulatory information

Based on available information, there are no known Union safety, health and environmental provisions applicable to the substance listed in this safety data sheet. There is no legal obligation to provide a safety data sheet for the given substance.

- 15.1

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

all as amended and including implementing regulations

Based on available information, there are no known Union safety, health and environmental provisions applicable to the substance listed in this safety data sheet. There is no legal obligation to provide a safety data sheet for the given substance.
- 15.2

Chemical safety assessment

The manufacturer has carried out a chemical safety assessment. Exposure assessment: Based on the available data, the mixture does not meet the PBT and vPvB criteria, so there is no obligation to carry out an exposure assessment. Risk characterization: Based on the available data, the mixture does not meet the PBT and vPvB criteria, so there is no obligation to carry out a risk characterization. Exposure scenarios are not relevant for the given substance.

SECTION 16: Other information

Complete text of all classifications and hazard classes referred to in SECTION 3:

Abbreviations

ADR

Accord Dangereuses Route

CAS

Chemical Abstracts Service

DNEL

Derived no-effect level

EC50

Effect concentration for 50%

EINECS

European Inventory of Existing Commercial Chemical Substances

IATA

International Air Transport Association

ICAO

International Civil Aviation Organization

IMDG

International Maritime Dangerous Goods

LD50

Lethal dose for 50%

NOAEL

No observable adverse effect level

NOEC

No observable effect concentration

MPC

Maximum permissible concentration

OEL

Occupational Exposure Limit (workplace exposure limit - 8 hours / shift)

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PBT	Persistent, bioaccumulative and toxic
PEL	Permissible exposure limits
PNEC	Predicted no-effect concentration
RID	Regulations for the International Carriage of Dangerous Goods by Rail
STEL	Short Term Exposure Limit (short exposure - corresponds to approx. 15 min.)
VOC	Volatile organic Compounds
vPvB	Very persistent and very bioaccumulative
WGK	Hazard classes for water (Wassergefährdungsklassen)
TRGS	German standard for the storage of hazardous substances (Technische Regeln für Gefahrstoffe)

Changes to previous version SDS:

This revision follows the revision: and complies with Regulations (EC) No. 1907/2006 (REACH) and No. 1272/2008 (CLP).

Key literature references and sources for data:

Classification was performed by calculation method.

Instructions for training

Guidance for all training intended for workers ensuring the protection of human health and the environment Follow all principles applicable to the handling of chemical substances and chemical mixtures.

Other information

The above information describes the conditions for safe handling of the product and corresponds to the current knowledge of the manufacturer and serves as instruction for the training of the persons handling the product.

The manufacturer carries guarantee the above-described properties of the product at the recommended use.