


**SECTION 1: Identification of the substance/mixture and of the company/undertaking**
**1.1 Product identifier**
**TROLLULL Steel Wool**

Registration number	01-2119462838-24-XXXX
IUPAC	Iron
EINECS/ELINCS	231-096-4
CAS	7439-89-6

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

Steel wool

**1.2.2 Uses advised against**

None known.

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

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**Address enquiries to**

Technical information	trollull@trollull.co.uk
Safety Data Sheet	sdb@chemiebuero.de

**1.4 Emergency telephone number**

Advisory body	+49 (0)89-19240 (24h) (english)
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**SECTION 2: Hazards identification**
**2.1 Classification of the substance or mixture**

No classification.

**2.2 Label elements**

Hazard pictograms	
Hazard statements	none

**2.3 Other hazards**

Environmental hazards	Does not contain any PBT or vPvB substances.
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**SECTION 3: Composition / Information on ingredients**
**Product-type:**

The product is a substance.

Range [%]	Substance
>= 97	Iron
CAS: 7439-89-6, EINECS/ELINCS: 231-096-4, Reg-No.: 01-2119462838-24-XXXX	

Comment on component parts	No dangerous components. Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.
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#### SECTION 4: First aid measures

##### 4.1 Description of first aid measures

<b>General information</b>	none
<b>Inhalation</b>	Ensure supply of fresh air. In the event of symptoms seek medical treatment.
<b>Skin contact</b>	Consult a doctor if skin irritation persists.
<b>Eye contact</b>	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.
<b>Ingestion</b>	In the event of symptoms seek medical treatment.

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

None known.

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

Treat symptomatically.

#### SECTION 5: Fire-fighting measures

##### 5.1 Extinguishing media

<b>Suitable extinguishing media</b>	Metal fire-ex powder. Sand.
<b>Extinguishing media that must not be used</b>	Water.

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

Risk of formation of toxic pyrolysis products.

##### 5.3 Advice for firefighters

Use self-contained breathing apparatus.  
Fire residues must be disposed of in accordance within the local regulations.

#### SECTION 6: Accidental release measures

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

Keep away from all sources of ignition.

##### 6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

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

Take up mechanically.  
Dispose of absorbed material in accordance within the regulations.  
Avoid raising dust.

##### 6.4 Reference to other sections

See SECTION 8+13

#### SECTION 7: Handling and storage

##### 7.1 Precautions for safe handling

No special measures necessary if used correctly.  
Keep away from all sources of ignition.  
The product is combustible.  
The product will not burn without support flame.  
Wash hands before breaks and after work.  
Use barrier skin cream.



## 7.2 Conditions for safe storage, including any incompatibilities

Do not store together with food and animal food/diet.

Store in a dry place.

## 7.3 Specific end use(s)

See product use, SECTION 1.2

## SECTION 8: Exposure controls / personal protection

### 8.1 Control parameters

#### Ingredients with occupational exposure limits to be monitored (GB)

not applicable

#### DNEL

Substance
Iron, CAS: 7439-89-6
Industrial, inhalative (dust), Long-term - local effects: 3 mg/m <sup>3</sup> .
general population, oral, Long-term - systemic effects: 0,71 mg/kg bw/day.
general population, inhalative (dust), Long-term - local effects: 1,5 mg/m <sup>3</sup> .

### 8.2 Exposure controls

<b>Additional advice on system design</b>	Ensure adequate ventilation on workstation. Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances.
<b>Eye protection</b>	safety glasses (EN 166:2001)
<b>Hand protection</b>	0,2mm Nitrile rubber, >480 min (EN 374-1/-2/-3).
<b>Skin protection</b>	Protective clothing.
<b>Other</b>	Avoid contact with eyes and skin.
<b>Respiratory protection</b>	Not required under normal conditions.
<b>Thermal hazards</b>	none
<b>Delimitation and monitoring of the environmental exposition</b>	Protect the environment by applying appropriate control measures to prevent or limit emissions.



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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Form	solid
Color	grey
Odor	odourless
Odour threshold	not applicable
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	not required
Flash point [°C]	not applicable
Flammability (solid, gas) [°C]	Burning time: not applicable
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	not applicable
Density [g/ml]	7,85
Bulk density [kg/m <sup>3</sup> ]	not determined
Solubility in water	insoluble
Partition coefficient [n-octanol/water]	not applicable
Viscosity	not applicable
Relative vapour density determined in air	not applicable
Evaporation speed	not applicable
Melting point [°C]	not determined
Autoignition temperature [°C]	not self-igniting
Decomposition temperature [°C]	not applicable

### 9.2 Other information

none

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No dangerous reactions known if used as directed.

### 10.2 Chemical stability

The product is stable under standard conditions.

### 10.3 Possibility of hazardous reactions

Reactions with acids.

### 10.4 Conditions to avoid

none

### 10.5 Incompatible materials

Acids

### 10.6 Hazardous decomposition products

No hazardous decomposition products known.



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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

<b>Serious eye damage/irritation</b>	Non-corrosive / non-irritating.
<b>Skin corrosion/irritation</b>	Non-corrosive / non-irritating.
<b>Respiratory or skin sensitisation</b>	Non-sensitizing.
<b>Specific target organ toxicity — single exposure</b>	No classification.
<b>Specific target organ toxicity — repeated exposure</b>	No classification.
<b>Mutagenicity</b>	There is no evidence of any mutagenic effects.
<b>Reproduction toxicity</b>	There is no evidence of any reproductive toxicity effects.
<b>Carcinogenicity</b>	There is no evidence of any carcinogenic effects.
<b>Aspiration hazard</b>	No classification.
<b>General remarks</b>	

none

## SECTION 12: Ecological information

### 12.1 Toxicity

### 12.2 Persistence and degradability

<b>Behaviour in environment compartments</b>	not determined
<b>Behaviour in sewage plant</b>	not determined
<b>Biological degradability</b>	not applicable

### 12.3 Bioaccumulative potential

not applicable

### 12.4 Mobility in soil

not determined  
The product is insoluble in water.

### 12.5 Results of PBT and vPvB assessment

not applicable

### 12.6 Other adverse effects

None known.



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### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

##### Product

For recycling, consult manufacturer.  
Coordinate disposal with the authorities if necessary.

**Waste no. (recommended)** 200140

##### Contaminated packaging

Uncontaminated packaging may be reused.

**Waste no. (recommended)** 150101

### SECTION 14: Transport information

#### 14.1 UN number

**Transport by land according to ADR/RID** not applicable

**Inland navigation (ADN)** not applicable

**Marine transport in accordance with IMDG** not applicable

**Air transport in accordance with IATA** not applicable

#### 14.2 UN proper shipping name

**Transport by land according to ADR/RID** NO DANGEROUS GOODS

**Inland navigation (ADN)** NO DANGEROUS GOODS

**Marine transport in accordance with IMDG** NOT CLASSIFIED AS "DANGEROUS GOODS"

**Air transport in accordance with IATA** NOT CLASSIFIED AS "DANGEROUS GOODS"

#### 14.3 Transport hazard class(es)

**Transport by land according to ADR/RID** not applicable

**Inland navigation (ADN)** not applicable

**Marine transport in accordance with IMDG** not applicable

**Air transport in accordance with IATA** not applicable



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**14.4 Packing group**

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

**14.5 Environmental hazards**

Transport by land according to ADR/RID no

Inland navigation (ADN) no

Marine transport in accordance with IMDG no

Air transport in accordance with IATA no

**14.6 Special precautions for user**

Relevant information under SECTION 6 to 8.

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

not applicable

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

**EEC-REGULATIONS** 1991/689 (2001/118); 2010/75; 2004/42; 648/2004; 1907/2006 (REACH); 1272/2008; 75/324/EEC (2008/47/EC); (EU) 2015/830; (EU) 2016/131; (EU) 517/2014

**TRANSPORT-REGULATIONS** DOT-Classification, ADR (2017); IMDG-Code (2017, 38. Amdt.); IATA-DGR (2018).

**NATIONAL REGULATIONS (GB):** EH40/2005 Workplace exposure limits (Second edition, published December 2011).

- Observe employment restrictions for people none

- VOC (2010/75/CE) 0 %

**15.2 Chemical safety assessment**

not applicable



## SECTION 16: Other information

### 16.1 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route  
 RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses  
 ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure  
 ATE = acute toxicity estimate  
 CAS = Chemical Abstracts Service  
 CLP = Classification, Labelling and Packaging  
 DMEL = Derived Minimum Effect Level  
 DNEL = Derived No Effect Level  
 EC50 = Median effective concentration  
 ECB = European Chemicals Bureau  
 EEC = European Economic Community  
 EINECS = European Inventory of Existing Commercial Chemical Substances  
 ELINCS = European List of Notified Chemical Substances  
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
 IATA = International Air Transport Association  
 IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk  
 IC50 = Inhibition concentration, 50%  
 IMDG = International Maritime Code for Dangerous Goods  
 IUCLID = International Uniform Chemical Information Database  
 LC50 = Lethal concentration, 50%  
 LD50 = Median lethal dose  
 LC0 = lethal concentration, 0%  
 LOAEL = lowest-observed-adverse-effect level  
 MARPOL = International Convention for the Prevention of Marine Pollution from Ships  
 NOAEL = No Observed Adverse Effect Level  
 NOEC = No Observed Effect Concentration  
 PBT = Persistent, Bioaccumulative and Toxic substance  
 PNEC = Predicted No-Effect Concentration  
 REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals  
 STP = Sewage Treatment Plant  
 TLV@/TWA = Threshold limit value – time-weighted average  
 TLV@/STEL = Threshold limit value – short-time exposure limit  
 VOC = Volatile Organic Compounds  
 vPvB = very Persistent and very Bioaccumulative

### 16.2 Other information

#### Classification procedure

#### Modified position

SECTION 2 been added: Does not contain any PBT or vPvB substances.  
 SECTION 4 been added: If eye irritation persists: Get medical advice/attention.  
 SECTION 4 been added: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 SECTION 4 been added: In the event of symptoms seek medical treatment.  
 SECTION 7 been added: The product will not burn without support flame.  
 SECTION 7 been added: Store in a dry place.  
 SECTION 8 been added: Protect the environment by applying appropriate control measures to prevent or limit emissions.  
 SECTION 8 been added: Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances.  
 SECTION 8 been added: Nitrile rubber, >480 min (EN 374-1/-2/-3).  
 SECTION 10 been added: Reactions with acids.  
 SECTION 10 been added: Acids  
 SECTION 12 been added: The product is insoluble in water.





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