

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

1.1. Product identifier

Product Description: Stainless steel wire, type 304
Cat No. : 40946
Molecular Formula Fe:Cr:Ni; 70:19:11 wt%

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

Recommended Use Laboratory chemicals.
Uses advised against No Information available

1.3. Details of the supplier of the safety data sheet

Company

Thermo Fisher (Kandel) GmbH
Erlenbachweg 2, 76870 Kandel, Germany
Tel: +49 (0) 721 84007 280
Fax: +49 (0) 721 84007 300

Swiss distributor - Fisher Scientific AG
Neuhofstrasse 11, CH 4153 Reinach
Tel: +41 (0) 56 618 41 11
<https://www.fishersci.ch/ch/en/customer-help-support/forms/email-us.html>

E-mail address begel.sdsdesk@thermofisher.com

1.4. Emergency telephone number

For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11
Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99
CHEMTREC Tel. No.**US**:001-800-424-9300 / **Europe**:001-703-527-3887

customers in Switzerland:
Tox Info Suisse Emergency Number: **145 (24hr)**
Tox Info Suisse: +41-44 251 51 51 (Emergency number from abroad)
Chemtrec (24h) Toll-Free: 0800 564 402
Chemtrec Local: +41-43 508 20 11 (Zurich)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

CLP Classification - Regulation (EC) No 1272/2008

Physical hazards

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Based on available data, the classification criteria are not met

Health hazards

Skin Sensitization

Category 1 (H317)

Carcinogenicity

Category 2 (H351)

Specific target organ toxicity - (repeated exposure)

Category 1 (H372)

Environmental hazards

Based on available data, the classification criteria are not met

Full text of Hazard Statements: see section 16

2.2. Label elements



Signal Word

Danger

Hazard Statements

H317 - May cause an allergic skin reaction

H351 - Suspected of causing cancer

H372 - Causes damage to organs through prolonged or repeated exposure

Precautionary Statements

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P201 - Obtain special instructions before use

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P308 + P313 - IF exposed or concerned: Get medical advice/attention

2.3. Other hazards

This product does not contain any known or suspected endocrine disruptors

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

| Component | CAS No | EC No | Weight % | CLP Classification - Regulation (EC) No 1272/2008 |
|-----------|-----------|-------------------|----------|---|
| Iron | 7439-89-6 | EEC No. 231-096-4 | 70.0 | - |
| Chromium | 7440-47-3 | EEC No. 231-157-5 | 19.0 | - |
| Nickel | 7440-02-0 | EEC No. 231-111-4 | 11.0 | Skin Sens. 1 (H317) Carc. 2 (H351) STOT RE 1 (H372) |

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Full text of Hazard Statements: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

| | |
|---|--|
| General Advice | If symptoms persist, call a physician. |
| Eye Contact | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention. |
| Skin Contact | Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician. |
| Ingestion | Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur. |
| Inhalation | Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur. |
| Self-Protection of the First Aider | Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. |

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

May cause allergic skin reaction. Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing

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

| | |
|---------------------------|------------------------|
| Notes to Physician | Treat symptomatically. |
|---------------------------|------------------------|

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media

approved class D extinguishers. Do not use water or foam.

Extinguishing media which must not be used for safety reasons

Water may be ineffective.

5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors.

Hazardous Combustion Products

Nickel oxides, Iron oxides, Chromium oxide.

5.3. Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation. No special precautions

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required.

6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system. Should not be released into the environment. Do not allow material to contaminate ground water system.

6.3. Methods and material for containment and cleaning up

Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed containers for disposal. Pick up and transfer to properly labelled containers.

6.4. Reference to other sections

Refer to protective measures listed in Sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Avoid dust formation.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and after work.

7.2. Conditions for safe storage, including any incompatibilities

Keep in a dry place. Keep away from acids.

Technical Rules for Hazardous Substances (TRGS) 510
Storage Class (LGK) (Germany)

Storage Class/LGK 6.1D

Switzerland - Storage of hazardous substances

Storage class - SC 6.1
<https://www.kvu.ch/de/themen/stoffe-und-produkte>
<https://www.kvu.ch/fr/themes/substances-et-produits>
<https://www.kvu.ch/it/temi/sostanze-e-prodotti>

7.3. Specific end use(s)

Use in laboratories

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure limits

List source(s): **EU** - Commission Directive (EU) 2019/1831 of 24 October 2019 establishing a fifth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC and amending Commission Directive 2000/39/EC **UK** - EH40/2005 Work Exposure Limits, Forth edition. Published 2020. **IRE** - 2010 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations 2001. Published by the Health and Safety Authority. **CH** - The Government of Switzerland has set a directive on limit values for working materials (Grenzwerte am Arbeitsplatz) which is based on the Swiss Federal Regulation "Verordnung über die Verhütung von Unfällen und Berufskrankheiten". This directive is administered, periodically revised and enforced by SUVA (Swiss National Accident Insurance Fund).

| Component | European Union | The United Kingdom | France | Belgium | Spain |
|-----------|--------------------------------|---|---|-----------------------------------|---|
| Chromium | TWA: 2 mg/m ³ (8hr) | STEL: 1.5 mg/m ³ 15 min TWA: 0.5 mg/m ³ 8 hr | TWA / VME: 2 mg/m ³ (8 heures). indicative limit | TWA: 0.5 mg/m ³ 8 uren | TWA / VLA-ED: 2 mg/m ³ (8 horas) |
| Nickel | | STEL: 1.5 mg/m ³ 15 min TWA: 0.5 mg/m ³ 8 hr | TWA / VME: 1 mg/m ³ (8 heures). | TWA: 1 mg/m ³ 8 uren | TWA / VLA-ED: 1 mg/m ³ (8 horas) |

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| | | | | | |
|--|--|------|---|--|--|
| | | Skin | TWA / VME: 1 mg/m ³ (8 heures). metal gratings | | |
|--|--|------|---|--|--|

| Component | Italy | Germany | Portugal | The Netherlands | Finland |
|-----------|--|---|------------------------------------|-----------------------------------|--|
| Chromium | TWA: 0.5 mg/m ³ 8 ore. Time Weighted Average | TWA: 2 mg/m ³ (8 Stunden). AGW - exposure factor 1 | TWA: 0.5 mg/m ³ 8 horas | TWA: 0.5 mg/m ³ 8 uren | TWA: 0.5 mg/m ³ 8 tunteina |
| Nickel | | TWA: 0.03 mg/m ³ (8 Stunden). AGW - exposure factor 8 TWA: 0.006 mg/m ³ (8 Stunden). AGW - exposure factor 8 | TWA: 1.5 mg/m ³ 8 horas | | TWA: 0.01 mg/m ³ 8 tunteina |

| Component | Austria | Denmark | Switzerland | Poland | Norway |
|-----------|--|--|--------------------------------------|---|---|
| Chromium | MAK-TMW: 2 mg/m ³ 8 Stunden | TWA: 0.5 mg/m ³ 8 timer STEL: 1 mg/m ³ 15 minutter | TWA: 0.5 mg/m ³ 8 Stunden | TWA: 0.5 mg/m ³ 8 godzinach | TWA: 0.5 mg/m ³ 8 timer STEL: 1.5 mg/m ³ 15 minutter. value calculated |
| Nickel | TRK-KZGW: 2 mg/m ³ 15 Minuten TRK-TMW: 0.5 mg/m ³ | TWA: 0.05 mg/m ³ 8 timer STEL: 0.1 mg/m ³ 15 minutter | TWA: 0.5 mg/m ³ 8 Stunden | TWA: 0.25 mg/m ³ 8 godzinach | TWA: 0.05 mg/m ³ 8 timer STEL: 0.15 mg/m ³ 15 minutter. value calculated |

| Component | Bulgaria | Croatia | Ireland | Cyprus | Czech Republic |
|-----------|-----------------------------|---|--|--------------------------|---|
| Iron | TWA: 6.0 mg/m ³ | | | | |
| Chromium | TWA: 2.0 mg/m ³ | TWA-GVI: 2 mg/m ³ 8 satima. Cr | TWA: 2 mg/m ³ 8 hr. STEL: 6 mg/m ³ 15 min | TWA: 2 mg/m ³ | TWA: 0.5 mg/m ³ 8 hodinách. dust Ceiling: 1.5 mg/m ³ |
| Nickel | TWA: 0.05 mg/m ³ | TWA-GVI: 0.5 mg/m ³ 8 satima. | TWA: 0.5 mg/m ³ 8 hr. STEL: 1.5 mg/m ³ 15 min | | TWA: 0.5 mg/m ³ 8 hodinách. respirable fraction of aerosol Ceiling: 1 mg/m ³ |

| Component | Estonia | Gibraltar | Greece | Hungary | Iceland |
|-----------|--|-------------------------------|--------------------------|--|--|
| Chromium | TWA: 2 mg/m ³ 8 tundides. | TWA: 2 mg/m ³ 8 hr | TWA: 1 mg/m ³ | TWA: 2 mg/m ³ 8 órában. AK | TWA: 0.5 mg/m ³ 8 klukkustundum. powder Ceiling: 1 mg/m ³ powder |
| Nickel | TWA: 0.5 mg/m ³ 8 tundides. | | TWA: 1 mg/m ³ | TWA: 0.01 mg/m ³ 8 órában. AK | TWA: 0.05 mg/m ³ 8 klukkustundum. Ni dust and powder Ceiling: 0.1 mg/m ³ Ni dust and powder |

| Component | Latvia | Lithuania | Luxembourg | Malta | Romania |
|-----------|-----------------------------|---------------------------------|------------------------------------|--------------------------|---|
| Chromium | TWA: 2 mg/m ³ | TWA: 2 mg/m ³ IPRD | TWA: 2 mg/m ³ 8 Stunden | TWA: 2 mg/m ³ | TWA: 2 mg/m ³ 8 ore |
| Nickel | TWA: 0.05 mg/m ³ | TWA: 0.5 mg/m ³ IPRD | | | TWA: 0.1 mg/m ³ 8 ore STEL: 0.5 mg/m ³ 15 minute |

| Component | Russia | Slovak Republic | Slovenia | Sweden | Turkey |
|-----------|--------------------------------|---|---|--|---------------------------------|
| Iron | TWA: 10 mg/m ³ 1026 | TWA: 6.0 mg/m ³ total aerosol | | | |
| Chromium | | | TWA: 2 mg/m ³ 8 urah inhalable fraction STEL: 2 mg/m ³ 15 minutah inhalable fraction | TLV: 0.5 mg/m ³ 8 timmar. NGV | TWA: 2 mg/m ³ 8 saat |
| Nickel | MAC: 0.05 mg/m ³ | TWA: 0.5 mg/m ³ 8 hodinách STEL: 0.05 mg/m ³ 15 minútach | TWA: 0.006 mg/m ³ 8 urah respirable fraction STEL: 0.048 mg/m ³ 15 minutah respirable fraction | TLV: 0.5 mg/m ³ 8 timmar. NGV | |

Biological limit values

List source(s):

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| Component | European Union | United Kingdom | France | Spain | Germany |
|-----------|----------------|----------------|---|-------|---------|
| Chromium | | | Total Chromium: 0.01 mg/g creatinine urine augmented during shift Total Chromium: 0.03 mg/g creatinine urine end of shift at end of workweek | | |

| Component | Italy | Finland | Denmark | Bulgaria | Romania |
|-----------|-------|---|---------|---|--|
| Chromium | | | | | Chromium: 10 µg/g Creatinine urine during working hours Chromium: 30 µg/g Creatinine urine end of work week |
| Nickel | | Nickel: 0.1 µmol/L urine after the shift after a working week or exposure period. | | Nickel: 45 µg/L urine after several work shifts | Nickel: 3 µg/L urine end of shift |

| Component | Gibraltar | Latvia | Slovak Republic | Luxembourg | Turkey |
|-----------|-----------|---|---|------------|--------|
| Chromium | | Chromium: 10 µg/g Creatinine urine end of shift; end of work week | | | |
| Nickel | | Nickel: 3 µg/L urine | Nickel: 0.03 mg/L blood end of exposure or work shift | | |

Monitoring methods

BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust

MDHS42/2 Nickel and inorganic compounds of nickel in air (except nickel carbonyl) Laboratory method using flame atomic absorption spectrometry or electrothermal atomic absorption spectrometry

MDHS 91 Metals and metalloids in workplace air by X-ray fluorescence spectrometry

MDHS 99 Metals in air by ICP-AES

Derived No Effect Level (DNEL) / Derived Minimum Effect Level (DMEL)

See table for values

| Component | Acute effects local (Dermal) | Acute effects systemic (Dermal) | Chronic effects local (Dermal) | Chronic effects systemic (Dermal) |
|------------------------------|------------------------------|---------------------------------|--------------------------------|-----------------------------------|
| Nickel 7440-02-0 (11.0) | | | DNEL = 0.035mg/cm2 | |

| Component | Acute effects local (Inhalation) | Acute effects systemic (Inhalation) | Chronic effects local (Inhalation) | Chronic effects systemic (Inhalation) |
|--------------------------------|----------------------------------|-------------------------------------|------------------------------------|---------------------------------------|
| Iron 7439-89-6 (70.0) | | | DNEL = 3mg/m ³ | |
| Chromium 7440-47-3 (19.0) | | | DNEL = 0.5mg/m ³ | |
| Nickel 7440-02-0 (11.0) | DNEL = 11.9mg/m ³ | | DNEL = 0.05mg/m ³ | DNEL = 0.05mg/m ³ |

Predicted No Effect Concentration (PNEC)

See values below.

| Component | Fresh water | Fresh water sediment | Water Intermittent | Microorganisms in sewage treatment | Soil (Agriculture) |
|--------------------------------|----------------|----------------------|--------------------|------------------------------------|--------------------------|
| Chromium 7440-47-3 (19.0) | PNEC = 6.5µg/L | PNEC = 205.7mg/kg | | | PNEC = 21.1mg/kg soil dw |

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| | | | | | |
|------------------------------|----------------|--------------------------------|--|-----------------|-----------------------------|
| | | sediment dw | | | |
| Nickel 7440-02-0 (11.0) | PNEC = 7.1µg/L | PNEC = 109mg/kg sediment dw | | PNEC = 0.33mg/L | PNEC = 29.9mg/kg soil dw |

| Component | Marine water | Marine water sediment | Marine water Intermittent | Food chain | Air |
|------------------------------|----------------|--------------------------------|------------------------------|--------------------------|-----|
| Nickel 7440-02-0 (11.0) | PNEC = 8.6µg/L | PNEC = 109mg/kg sediment dw | | PNEC = 0.12mg/kg food | |

8.2. Exposure controls

Engineering Measures

None under normal use conditions.

Personal protective equipment

Eye Protection

Wear safety glasses with side shields (or goggles) (European standard - EN 166)

Hand Protection

No special protective equipment required

| Glove material | Breakthrough time | Glove thickness | EU standard | Glove comments |
|-------------------|--------------------------------------|-----------------|-------------|-----------------------|
| Disposable gloves | See manufacturers recommendations | - | EN 374 | (minimum requirement) |

Skin and body protection

Long sleeved clothing.

Respiratory Protection

No special protective equipment required.

Large scale/emergency use

In case of insufficient ventilation, wear suitable respiratory equipment

Small scale/Laboratory use

No personal respiratory protective equipment normally required
When RPE is used a face piece Fit Test should be conducted

Environmental exposure controls

Prevent product from entering drains. Do not allow material to contaminate ground water system. Local authorities should be advised if significant spillages cannot be contained.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical State

Solid

Appearance

Odor

Odorless

Odor Threshold

No data available

Melting Point/Range

No data available

Softening Point

No data available

Boiling Point/Range

No information available

Flammability (liquid)

Not applicable

Solid

Flammability (solid,gas)

No information available

Explosion Limits

No data available

Flash Point

No information available

Method - No information available

Autoignition Temperature

No data available

Decomposition Temperature

No data available

pH

No information available

Viscosity

Not applicable

Solid

Water Solubility

Insoluble in water

Solubility in other solvents

No information available

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Partition Coefficient (n-octanol/water)

Vapor Pressure <=1100 hPa @ 50 °C
Density / Specific Gravity No data available
Bulk Density No data available
Vapor Density Not applicable Solid
Particle characteristics No data available

9.2. Other information

Molecular Formula Fe:Cr:Ni; 70:19:11 wt%
Evaporation Rate Not applicable - Solid

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

None known, based on information available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous Polymerization No information available.
Hazardous Reactions None under normal processing.

10.4. Conditions to avoid

Incompatible products. Excess heat.

10.5. Incompatible materials

Acids.

10.6. Hazardous decomposition products

Nickel oxides. Iron oxides. Chromium oxide.

SECTION 11: TOXICOLOGICAL INFORMATION

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

Product Information

(a) acute toxicity;

Oral Based on available data, the classification criteria are not met
Dermal No data available
Inhalation No data available

Toxicology data for the components

| Component | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|-----------|---------------------------|-------------|------------------------------|
| Iron | 7500 mg/kg (Rat) | - | - |
| Nickel | LD50 > 9000 mg/kg (Rat) | - | LC50 > 10.2 mg/L (Rat) 1 h |

(b) skin corrosion/irritation; No data available

(c) serious eye damage/irritation; No data available

(d) respiratory or skin sensitization;

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**Respiratory
Skin**

No data available
Category 1

May cause sensitization by skin contact

(e) germ cell mutagenicity;

No data available

(f) carcinogenicity;

Category 2

The table below indicates whether each agency has listed any ingredient as a carcinogen

| Component | EU | UK | Germany | IARC |
|-----------|----|----|---------|----------|
| Nickel | | | Cat. 1 | Group 2B |

(g) reproductive toxicity;

No data available

(h) STOT-single exposure;

No data available

(i) STOT-repeated exposure;

Category 1

**Route of exposure
Target Organs**

Inhalation
Lungs.

(j) aspiration hazard;

Not applicable
Solid

Symptoms / effects, both acute and delayed

Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing.

11.2. Information on other hazards

Endocrine Disrupting Properties

Assess endocrine disrupting properties for human health. This product does not contain any known or suspected endocrine disruptors.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity effects

The product contains following substances which are hazardous for the environment. Contains a substance which is: Very toxic to aquatic organisms. May cause long-term adverse effects in the environment. Do not allow material to contaminate ground water system.

| Component | Freshwater Fish | Water Flea | Freshwater Algae |
|-----------|--|---------------------|---|
| Nickel | LC50: > 100 mg/L, 96h (Brachydanio rerio) LC50: = 1.3 mg/L, 96h semi-static (Cyprinus carpio) LC50: = 10.4 mg/L, 96h static (Cyprinus carpio) | EC50 = 510 µg/L 96h | EC50 = 0.1 mg/L 72h EC50 = 0.18 mg/L 72h |

12.2. Persistence and degradability

**Persistence
Degradability
Degradation in sewage
treatment plant**

Product contains heavy metals. Discharge into the environment must be avoided. Special pre-treatment is necessary
Insoluble in water, May persist.
Not relevant for inorganic substances.
Contains substances known to be hazardous to the environment or not degradable in waste water treatment plants.

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12.3. Bioaccumulative potential

May have some potential to bioaccumulate; Product has a high potential to bioconcentrate

| Component | log Pow | Bioconcentration factor (BCF) |
|-----------|---------|-------------------------------|
| Chromium | | 1.03 - 1.22 |

12.4. Mobility in soil

Spillage unlikely to penetrate soil Is not likely mobile in the environment due its low water solubility.

12.5. Results of PBT and vPvB assessment

No data available for assessment.

12.6. Endocrine disrupting properties

Endocrine Disruptor Information

This product does not contain any known or suspected endocrine disruptors

12.7. Other adverse effects

Persistent Organic Pollutant

This product does not contain any known or suspected substance

Ozone Depletion Potential

This product does not contain any known or suspected substance

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from Residues/Unused Products

Waste is classified as hazardous. Dispose of in accordance with the European Directives on waste and hazardous waste. Dispose of in accordance with local regulations.

Contaminated Packaging

Dispose of this container to hazardous or special waste collection point.

European Waste Catalogue (EWC)

According to the European Waste Catalog, Waste Codes are not product specific, but application specific.

Other Information

Do not flush to sewer. Waste codes should be assigned by the user based on the application for which the product was used. Do not empty into drains.

Switzerland - Waste Ordinance

Disposal should be in accordance with applicable regional, national and local laws and regulations. Ordinance on the Avoidance and the Disposal of Waste (Waste Ordinance, ADWO) SR 814.600
<https://www.fedlex.admin.ch/eli/cc/2015/891/en>

SECTION 14: TRANSPORT INFORMATION

IMDG/IMO

Not regulated

14.1. UN number

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

ADR

Not regulated

14.1. UN number

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

IATA

Not regulated

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14.1. UN number

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

14.5. Environmental hazards

No hazards identified

14.6. Special precautions for user

No special precautions required.

14.7. Maritime transport in bulk according to IMO instruments

Not applicable, packaged goods

SECTION 15: REGULATORY INFORMATION

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

International Inventories

Europe (EINECS/ELINCS/NLP), China (IECSC), Taiwan (TCSI), Korea (KECL), Japan (ENCS), Japan (ISHL), Canada (DSL/NDSL), Australia (AICS), New Zealand (NZIoC), Philippines (PICCS). US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

| Component | CAS No | EINECS | ELINCS | NLP | IECSC | TCSI | KECL | ENCS | ISHL |
|-----------|-----------|-----------|--------|-----|-------|------|----------|------|------|
| Iron | 7439-89-6 | 231-096-4 | - | - | X | X | KE-21059 | X | - |
| Chromium | 7440-47-3 | 231-157-5 | - | - | X | X | KE-05970 | X | - |
| Nickel | 7440-02-0 | 231-111-4 | - | - | X | X | KE-25818 | X | - |

| Component | CAS No | TSCA | TSCA Inventory notification - Active-Inactive | DSL | NDSL | AICS | NZIoC | PICCS |
|-----------|-----------|------|---|-----|------|------|-------|-------|
| Iron | 7439-89-6 | X | ACTIVE | X | - | X | X | X |
| Chromium | 7440-47-3 | X | ACTIVE | X | - | X | X | X |
| Nickel | 7440-02-0 | X | ACTIVE | X | - | X | X | X |

Legend: X - Listed '-' - Not Listed

KECL - NIER number or KE number (<http://ncis.nier.go.kr/en/main.do>)

Authorisation/Restrictions according to EU REACH

| Component | CAS No | REACH (1907/2006) - Annex XIV - Substances Subject to Authorization | REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances | REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC) |
|-----------|-----------|---|--|---|
| Iron | 7439-89-6 | - | - | - |
| Chromium | 7440-47-3 | - | Use restricted. See item 75. (see link for restriction details) | - |
| Nickel | 7440-02-0 | - | Use restricted. See item 27. (see link for restriction details) Use restricted. See item 75. (see link for restriction details) | - |

REACH links

<https://echa.europa.eu/substances-restricted-under-reach>

Seveso III Directive (2012/18/EC)

| Component | CAS No | Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification | Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements |
|-----------|--------|---|--|
|-----------|--------|---|--|

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| | | | |
|----------|-----------|----------------|----------------|
| Iron | 7439-89-6 | Not applicable | Not applicable |
| Chromium | 7440-47-3 | Not applicable | Not applicable |
| Nickel | 7440-02-0 | Not applicable | Not applicable |

Regulation (EC) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of dangerous chemicals

Not applicable

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)?

Not applicable

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work .

Take note of Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values

National Regulations

UK - Take note of Control of Substances Hazardous to Health Regulations (COSHH) 2002 and 2005 Amendment

WGK Classification

Water endangering class = 2 (self classification)

| Component | Germany - Water Classification (AwSV) | Germany - TA-Luft Class |
|-----------|---------------------------------------|---|
| Iron | nwg | |
| Chromium | nwg | Class III : 1 mg/m ³ (Massenkonzentration) |
| Nickel | WGK 2 | Class II : 0.5 mg/m ³ (Massenkonzentration) Krebserzeugende Stoffe - Class II : 0.5 mg/m ³ (Massenkonzentration) |

| Component | France - INRS (Tables of occupational diseases) |
|-----------|---|
| Iron | Tableaux des maladies professionnelles (TMP) - RG 44,RG 44bis,RG 94 |
| Chromium | Tableaux des maladies professionnelles (TMP) - RG 10 |

Swiss Regulations

Article 4 para. 4 of the Ordinance on the protection of young people in the workplace (SR 822.115) and Article 1 lit. f of the EAER regulation on hazardous work and young people (SR 822.115.2).

Take note on Article 13 Maternity Ordinance (SR 822.111.52) with regards expectant and nursing mothers.

| Component | Switzerland - Ordinance on the Reduction of Risk from handling of hazardous substances preparation (SR 814.81) | Switzerland - Ordinance on Incentive Taxes on Volatile Organic Compounds (OVOC) | Switzerland - Ordinance of the Rotterdam Convention on the Prior Informed Consent Procedure |
|--------------------------------|--|---|---|
| Chromium 7440-47-3 (19.0) | Prohibited and Restricted Substances | | |
| Nickel 7440-02-0 (11.0) | Prohibited and Restricted Substances | | |

15.2. Chemical safety assessment

Chemical Safety Assessment/Reports (CSA/CSR) are not required for mixtures

SECTION 16: OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3

H317 - May cause an allergic skin reaction

H351 - Suspected of causing cancer

H372 - Causes damage to organs through prolonged or repeated exposure

H400 - Very toxic to aquatic life

Legend

SAFETY DATA SHEET

Stainless steel wire, type 304

Revision Date 20-Feb-2024

CAS - Chemical Abstracts Service

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

IECSC - Chinese Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List

ENCS - Japanese Existing and New Chemical Substances

AICS - Australian Inventory of Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

WEL - Workplace Exposure Limit

ACGIH - American Conference of Governmental Industrial Hygienists

DNEL - Derived No Effect Level

RPE - Respiratory Protective Equipment

LC50 - Lethal Concentration 50%

NOEC - No Observed Effect Concentration

PBT - Persistent, Bioaccumulative, Toxic

TWA - Time Weighted Average

IARC - International Agency for Research on Cancer
Predicted No Effect Concentration (PNEC)

LD50 - Lethal Dose 50%

EC50 - Effective Concentration 50%

POW - Partition coefficient Octanol:Water

vPvB - very Persistent, very Bioaccumulative

ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road

IMO/IMDG - International Maritime Organization/International Maritime Dangerous Goods Code

OECD - Organisation for Economic Co-operation and Development

BCF - Bioconcentration factor

Key literature references and sources for data

<https://echa.europa.eu/information-on-chemicals>

Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

ICAO/IATA - International Civil Aviation Organization/International Air Transport Association

MARPOL - International Convention for the Prevention of Pollution from Ships

ATE - Acute Toxicity Estimate

VOC - (volatile organic compound)

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Physical hazards On basis of test data

Health Hazards Calculation method

Environmental hazards Calculation method

Training Advice

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

Prepared By Health, Safety and Environmental Department

Revision Date 20-Feb-2024

Revision Summary New emergency telephone response service provider.

**This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.
COMMISSION REGULATION (EU) 2020/878 amending Annex II to Regulation (EC) No
1907/2006 .**

**For Switzerland - Compiled in accordance with the technical provisions referred to in Annex 2,
Number 3, ChemO (SR 813.11 - Ordinance on Protection against Dangerous Substances and
Preparations).**

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of Safety Data Sheet