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according to 1907/2006/EC, Article 31

Printing date 27.07.2021

Revision: 27.07.2021

1.1 Proauct	identifier
Trade name	PERKALLOY STD
	<i>ber:</i> N5190616
1.2 Relevant	t identified uses of the substance or mixture and uses advised against
No further r	elevant information available.
Application	of the substance / the mixture Laboratory chemicals
	of the supplier of the safety data sheet rer/Supplier:
Ū	
PerkinElmer	
710 Bridgep	
	nnecticut 06484 USA
	areUS@perkinelmer.com
203-925-46 PerkinElmer	
	r, Inc. ad Buckinghamshire
Seer Green	
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P: 0800 896	
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PerkinElmer	
	Business Park, Unit A
Llantrisant (
United King	
	inelmer.com
P: 44 1443 2	
	ncy telephone number:
	C (within US) 800-424-9300 C (from outside US) +1 703-527-3887 (call collect)
	C (within AU) +(61)-290372994
CHEMINE	((01) 2)(01) 2)(01)
SECTION	N 2: Hazards identification
	cation of the substance or mixture
Classificano	on according to Regulation (EC) No 1272/2008
G Sec G	HS06 skull and crossbones
\mathbf{V}	
Acute Tox. 3	3 H301 Toxic if swallowed.
\mathcal{G}	HS08 health hazard
V	
Carc. 2	H351 Suspected of causing cancer. Route of exposure: Inhalation.
STOT RE 1	H372 Causes damage to the respiratory system through prolonged or repeated exposure. Route of



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\mathbf{V}	GHS07
Skin Sens	s. 1 H317 May cause an allergic skin reaction.
	l elements
	g according to Regulation (EC) No 1272/2008
	luct is classified and labelled according to the CLP regulation.
	pictograms GHS06, GHS08
• Signal w	ord Danger
· Hazard-a	letermining components of labelling:
iron	
nickel	
· Hazard s	tatements
H301 To.	xic if swallowed.
	ty cause an allergic skin reaction.
	spected of causing cancer. Route of exposure: Inhalation.
H372 Ca	uses damage to the respiratory system through prolonged or repeated exposure. Route of exposur
	halation.
· Precauti	onary statements
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
	310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P321	Specific treatment (see on this label).
P330	Rinse mouth.
	364 Take off contaminated clothing and wash it before reuse.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
$\cdot 2.3 Other$	
	duct does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds o
formalde	
	f PBT and vPvB assessment
	t applicable.
· VPVB: NO	ot applicable.
SECTI	ON 3: Composition/information on ingredients
	D/N 5: Composition/information on ingreatents

· Dangerous compone	ents:		
CAS: 7439-89-6	iron		50.0%
EINECS: 231-096-4			
CAS: 7440-02-0	nickel	& Carc. 2, H351; STOT RE 1, H372	50.0%
EINECS: 231-111-4		& Carc. 2, H351; STOT RE 1, H372 Skin Sens. 1, H317	
· Additional informati	ion: For the wording of the listed hazard p	hrases refer to section 16.	

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SECTION 4: First aid measures

• 4.1 Description of first aid measures

• General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

In case of irregular breathing or respiratory arrest provide artificial respiration.

• After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

• After skin contact:

If skin irritation continues, consult a doctor.

Immediately wash with water and soap and rinse thoroughly.

- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing: If symptoms persist consult 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.

SECTION 5: Firefighting measures

· 5.1 Extinguishing media

• Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.

5.2 Special hazards arising from the substance or mixture

- During heating or in case of fire poisonous gases are produced.
- · 5.3 Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

SECTION 6: Accidental release measures

• 6.1 Personal precautions, protective equipment and emergency procedures Mount respiratory protective device.

6.2 Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system.

• 6.3 Methods and material for containment and cleaning up:

- Dispose contaminated material as waste according to item 13.
- Ensure adequate ventilation.
- 6.4 Reference to other sections
- No dangerous substances are released.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

• 7.1 Precautions for safe handling Thorough dedusting.

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Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care.

• *Information about fire - and explosion protection: The product is not flammable. Keep respiratory protective device available.*

• 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: Keep container tightly sealed.

• 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· Additional information about design of technical facilities: No further data; see item 7.

· Ingredients with limit values that require monitoring at the workplace:

7440-02-0 nickel

WEL Long-term value: 0.5 mg/m³

as Ni; Sk; Carc

• Additional information: The lists valid during the making were used as basis.

· 8.2 Exposure controls

· Personal protective equipment:

• General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Store protective clothing separately.

• Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

• Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation *Material of gloves*

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 can not be calculated in advance and has therefore to be checked prior to the application. **Penetration time of glove material**

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

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• Eye protection:

Tightly sealed goggles

9.1 Information on basic physical and	chemical properties	
• General Information		
Appearance:	Solid material	
Form: Colour:	Light grey	
· Odour:	Odourless	
· Odour threshold:	Not determined.	
pH-value:	Not applicable.	
Change in condition		
Melting point/freezing point:	1539 °C	
Initial boiling point and boiling rang	e: 2730 °C	
Flash point:	Not applicable.	
Flammability (solid, gas):	Not determined.	
Decomposition temperature:	Not determined.	
Auto-ignition temperature:	Product is not selfigniting.	
Explosive properties:	Product does not present an explosion hazard. Not determined.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapour pressure:	Not applicable.	
Density at 20 °C:	8.91 g/cm ³	
Relative density	Not determined.	
Vapour density	Not applicable.	
Evaporation rate	Not applicable.	
Solubility in / Miscibility with		
water:	Fully miscible.	
Partition coefficient: n-octanol/water:	Not determined.	
Viscosity:		
Dynamic:	Not applicable. Not applicable.	



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· Solvent content:

100.0 %

• 9.2 Other information

Solids content:

No further relevant information available.

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

· 10.2 Chemical stability

• 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 No further relevant information available.

- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- Acute toxicity

Toxic if swallowed.

· LD/LC50 values relevant for classification:

7439-89-6 iron

Oral LD50 30 mg/kg (rat)

- Primary irritant effect:
- · 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

May cause an allergic skin reaction.

- Additional toxicological information:
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity
- Suspected of causing cancer. Route of exposure: Inhalation.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure Based on available data, the classification criteria are not met.
- · STOT-repeated exposure

Causes damage to the respiratory system through prolonged or repeated exposure. Route of exposure: Inhalation.

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

SECTION 12: Ecological information

· 12.1 Toxicity

- Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.

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- 12.4 Mobility in soil No further relevant information available.
- Additional ecological information:

· General notes:

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

Danger to drinking water if even small quantities leak into the ground.

- · 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.

• **vPvB:** Not applicable.

· 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agents: Water, if necessary together with cleansing agents.

· 14.1 UN-Number · ADR, IMDG, IATA	UN3288
· 14.2 UN proper shipping name · ADR	3288 TOXIC SOLID, INORGANIC, N.O.S. (iron)
· IMDG, IATA	TOXIC SOLID, INORGANIC, N.O.S. (iron)
· 14.3 Transport hazard class(es)	
· ADR	
· Class	61 (T5) Toyia substances
· Class · Label	6.1 (T5) Toxic substances. 6.1
· IMDG, IATA	
· Class	6.1 Toxic substances.
· Label	6.1
· 14.4 Packing group	



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14.5 Environmental hazards:	
Marine pollutant:	No
14.6 Special precautions for user	Warning: Toxic substances.
Hazard identification number (Kemler code):	60
EMS Number:	F-A,S-A
Stowage Category	A
14.7 Transport in bulk according to Annex II of	<i>of</i>
Marpol and the IBC Code	Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	5 kg
Excepted quantities (EQ)	Code: El
	Maximum net quantity per inner packaging: 30 g
	Maximum net quantity per outer packaging: 1000 g
Transport category	2
Tunnel restriction code	Ε
IMDG	
Limited quantities (LQ)	5 kg
Excepted quantities (EQ)	Code: E1
-	Maximum net quantity per inner packaging: 30 g
	Maximum net quantity per outer packaging: 1000 g
UN ''Model Regulation'':	UN 3288 TOXIC SOLID, INORGANIC, N.O.S. (IRON), 6.1, II

SECTION 15: Regulatory information

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture				
CAS: 7439-89-6 EINECS: 231-096-4	iron	♦ Acute Tox. 2, H300	50.0%	
CAS: 7440-02-0 EINECS: 231-111-4	nickel	Carc. 2, H351; STOT RE 1, H372 Skin Sens. 1, H317	50.0%	

· Directive 2012/18/EU

- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Seveso category H2 ACUTE TOXIC
- \cdot Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 27

• DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

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· National regulations:

· Information about limitation of use:

Workers are not allowed to be exposed to this hazardous material. Exceptions can be made by the authorities in certain cases.

• Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.

• 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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SECTION 16: Other information

Disclaimer

The information provided in this Material Safety Data Sheet is based on our present knowledge, and believed to be correct at the date of publication. However, no representation is made concerning its accuracy and completeness. It is intended as guidance only, and is not to be considered a warranty or quality specification. All materials may present unknown hazards, and should be used with caution. Although certain hazards are described, we cannot guarantee that these are the only hazards which exist. PerkinElmer Life and Analytical Sciences shall not be held liable for any damage resulting from handling or from contact with the product.

· Relevant phrases

H300 Fatal if swallowed.
H317 May cause an allergic skin reaction.
H351 Suspected of causing cancer.
H372 Causes damage to organs through prolonged or repeated exposure.

· Department issuing SDS:

Environmental, Health and Safety PerkinElmer Chalfont Road Buckinghamshire Seer Green HP9 2FX United Kingdom Telephone : 0800-89 60 46 FAX : 0800-89 17 14

• Contact:

Within the USA: 1-(800)-762-4000 Outside the USA: 1-(203)-712-8488

• 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) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Acute Tox. 2: Acute toxicity – Category 2 Acute Tox. 3: Acute toxicity – Category 3

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Skin Sens. 1: Skin sensitisation – Category 1 Carc. 2: Carcinogenicity – Category 2 STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1 • * Data compared to the previous version altered.