

Globally Harmonized System of Classification and Labelling of  
Chemicals (GHS)

**STAY/STEEL 316L K Flake Standard Grade**

Version 3.0

Revision Date 08.11.2023

Print Date 09.11.2023

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

Trade name : STAY/STEEL 316L K Flake Standard Grade  
Material number : 046692BFL

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

This information is not available.

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

Company : ECKART GmbH  
Guentersthal 4  
91235 Hartenstein  
Telephone : +499152770  
Telefax : +499152777008  
E-mail address : [msds.eckart@altana.com](mailto:msds.eckart@altana.com)  
Responsible/issuing person

**1.4 Emergency telephone number****NCEC:**

(contract no.: ECKART29003-NCEC)

+44 1235 239671 (Middle East/Africa, call and response in your language)

+1 215 207 0061 (Americas, call and response in your language)

+65 3158 1074 (Asia-Pacific, call and response in your language)

**SECTION 2: Hazards identification****GHS Classification**

: Skin sensitisation, Category 1, H317  
Carcinogenicity, Category 2, H351  
Specific target organ toxicity - repeated exposure, Category 1,

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Inhalation, H373  
 Specific target organ toxicity - repeated exposure, Category 2, H373  
 Long-term (chronic) aquatic hazard, Category 4, H413

### GHS-Labelling

Symbol(s)



Symbol(s)



Signal word

: Warning  
 Warning

Hazard statements

: H317: May cause an allergic skin reaction.  
 H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
 H351: Suspected of causing cancer.  
 H373: May cause damage to organs through prolonged or repeated exposure.  
 H413: May cause long lasting harmful effects to aquatic life.  
 H317: May cause an allergic skin reaction.  
 H351: Suspected of causing cancer.  
 H373: May cause damage to organs through prolonged or repeated exposure.  
 H413: May cause long lasting harmful effects to aquatic life.

Precautionary statements

: **Prevention:**  
 P201 Obtain special instructions before use.  
 P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves.  
 P281 Use personal protective equipment as required.  
 P203 Obtain, read and follow all safety instructions before

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use.

P260 Do not breathe dust.

P272 Contaminated work clothing should not be allowed out  
of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye  
protection/ face protection/ hearing protection.**Response:**P308 + P313 IF exposed or concerned: Get medical advice/  
attention.

P302 + P352 IF ON SKIN: Wash with plenty of water.

P318 IF exposed or concerned, get medical advice.

P333 + P317 If skin irritation or rash occurs: Get medical  
help.**Storage:**

P405 Store locked up.

**Disposal:**P501 Dispose of contents/ container to an approved waste  
disposal plant.**Hazardous components which must be listed on the label**

Identification	CAS-No.
nickel	7440-02-0
cobalt	7440-48-4
Identification	CAS-No.
nickel	7440-02-0

**SECTION 3: Composition/information on ingredients**

Substance No. :

**Hazardous components**

Chemical name	CAS-No. EINECS-No.	Classification and labelling	Concentration[%]
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chromium	7440-47-3 231-157-5	Acute Tox.;5;H333 Aquatic Chronic;4;H413	10 - 20
nickel	7440-02-0 231-111-4	Skin Sens.;1;H317 Carc.;2;H351 STOT RE;1;H372 Aquatic Chronic;3;H412	2,5 - 10

For the full text of the H-Statements mentioned in this Section, see Section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- General advice : Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.
- If inhaled : Call a physician or poison control centre immediately.  
If unconscious, place in recovery position and seek medical advice.
- In case of skin contact : If on skin, rinse well with water.
- In case of eye contact : Flush eyes with water as a precaution.  
Remove contact lenses.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.  
Take victim immediately to hospital.

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

This information is not available.

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

This information is not available.

**SECTION 5: Firefighting measures****5.1 Extinguishing media**

Unsuitable extinguishing media : High volume water jet

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

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

**5.3 Advice for firefighters**

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**Personal precautions : Use personal protective equipment.  
Avoid dust formation.  
Avoid breathing dust.  
Ensure adequate ventilation.**6.2 Environmental precautions**

General advice : Prevent product from entering drains.

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Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform  
respective authorities.

This information is not available.

**6.3 Methods and materials for containment and cleaning up**

Methods for cleaning up : Keep in suitable, closed containers for disposal.

**6.4 Reference to other sections**

This information is not available.

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**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

Advice on safe handling : Avoid formation of respirable particles. Do not breathe vapours/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national regulations. Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Advice on protection against fire and explosion : Avoid dust formation.

Hygiene measures : When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

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

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Electrical installations / working materials must comply with the technological safety standards.

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Other data : Keep in a dry place. No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

This information is not available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Germany:

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis
iron	7439-89-6	AGW (Inhalable fraction)	10 mg/m <sup>3</sup>	2021-07-02	DE TRGS 900
Peak-limit: excursion factor (category)		2;(II)			
Further information		When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
iron	7439-89-6	AGW (Alveolate fraction)	1,25 mg/m <sup>3</sup>	2021-07-02	DE TRGS 900
Peak-limit: excursion factor (category)		2;(II)			
Further information		When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
chromium	7440-47-3	TWA	2 mg/m <sup>3</sup>	2006-02-09	2006/15/EC
Further information		Indicative			
chromium	7440-47-3	AGW (Inhalable fraction)	2 mg/m <sup>3</sup>	2007-12-27	DE TRGS 900
Peak-limit: excursion factor (category)		1;(I)			
Further information		European Union (The EU has established a limit value: deviations in value and peak limit are possible)The threshold value is based			

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		on the element content of the corresponding metal.			
chromium	7440-47-3	TWA	2 mg/m <sup>3</sup>	2006-02-09	2006/15/EC
Further information		Indicative			
chromium	7440-47-3	AGW (Inhalable fraction)	2 mg/m <sup>3</sup>	2018-06-07	DE TRGS 900
Peak-limit: excursion factor (category)		1;(I)			
Further information		European Union (The EU has established a limit value: deviations in value and peak limit are possible)The threshold value is based on the element content of the corresponding metal.			
nickel	7440-02-0	TWA	0,5 mg/m <sup>3</sup>		DE TRGS 900
nickel	7440-02-0	AGW (Alveolate fraction)	0,006 mg/m <sup>3</sup>	2017-10-17	DE TRGS 900
Peak-limit: excursion factor (category)		8;(II)			
Further information		<p>For nickel compounds classified as Carc 1A or 1B, see TRGS 910 and TRGS 561. An assessment based on the AGW for nickel metal can be carried out if nickel metal only is present. If nickel-containing dusts are formed during activities in which only surface oxidation is to be controlled, they must be treated as nickel-metal-containing mixtures. When using thermal processes in the presence of oxygen, a formation of oxidic nickel compounds must always be assumed. This is the case, for example, in welding (electrodes or wire) and thermal cutting with or from alloys, in the metal injection of alloys, in the melting and casting of alloys, and in the grinding and separation of alloys with 'spark formation'. Further recommendations as well as examples of working methods, for which the AGW or the ERB can be used for assessment, are contained in the IFA workbook (code 0537).Commission for dangerous substancesWhen there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn childSubstance sensitizing through the skin</p>			
manganese	7439-96-5	AGW (Inhalable fraction)	0,5 mg/m <sup>3</sup>	2006-01-01	DE TRGS 900
Further information		Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).When there is			



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		compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
manganese	7439-96-5	TWA (inhalable fraction)	0,2 mg/m <sup>3</sup>	2017-02-01	2017/164/EU
Further information		Indicative			
manganese	7439-96-5	TWA (Respirable fraction)	0,05 mg/m <sup>3</sup>	2017-02-01	2017/164/EU
Further information		Indicative			
manganese	7439-96-5	AGW (Inhalable fraction)	0,2 mg/m <sup>3</sup>	2015-11-06	DE TRGS 900
Peak-limit: excursion factor (category)		8;(II)			
Further information		Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).The threshold value is based on the element content of the corresponding metal.When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
manganese	7439-96-5	AGW (Alveolate fraction)	0,02 mg/m <sup>3</sup>	2015-11-06	DE TRGS 900
Peak-limit: excursion factor (category)		8;(II)			
Further information		Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).The threshold value is based on the element content of the corresponding metal.When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			

### United States of America (USA):

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis
iron	7439-89-6	TWA (total dust)	50 Million particles per cubic foot	2012-07-01	
iron	7439-89-6	TWA (total dust)	15 mg/m <sup>3</sup>	2012-07-01	
iron	7439-89-6	TWA (respirable fraction)	5 mg/m <sup>3</sup>	2012-07-01	

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iron	7439-89-6	TWA (respirable fraction)	15 Million particles per cubic foot	2012-07-01	
iron	7439-89-6	PEL (Total dust)	10 mg/m3	2014-11-26	
iron	7439-89-6	PEL (respirable dust fraction)	5 mg/m3	2014-11-26	
chromium	7440-47-3	TWA	0,5 mg/m3	2013-10-08	
chromium	7440-47-3	TWA	0,5 mg/m3	2007-01-01	
chromium	7440-47-3	TWA	1 mg/m3	1989-01-19	
chromium	7440-47-3	TWA	0,5 mg/m3	2007-01-01	
chromium	7440-47-3	TWA	1 mg/m3	1989-01-19	
chromium	7440-47-3	TWA	0,5 mg/m3	2013-10-08	
chromium	7440-47-3	TWA	1 mg/m3	2011-07-01	
chromium	7440-47-3	PEL	0,5 mg/m3	2014-11-26	
chromium	7440-47-3	TWA	0,5 mg/m3	2007-01-01	
chromium	7440-47-3	TWA	0,5 mg/m3	2019-03-05	
nickel	7440-02-0	TWA	0,015 mg/m3	2005-09-01	
nickel	7440-02-0	TWA (Inhalable particulate matter)	1,5 mg/m3	2013-03-01	
nickel	7440-02-0	TWA	1 mg/m3	1989-01-19	
nickel	7440-02-0	TWA	1 mg/m3	1989-01-19	
nickel	7440-02-0	TWA	1 mg/m3	2011-07-01	
nickel	7440-02-0	TWA	0,015 mg/m3	2013-10-08	
nickel	7440-02-0	TWA (Inhalable particulate matter)	1,5 mg/m3	2013-03-01	
nickel	7440-02-0	PEL	0,5 mg/m3	2014-11-26	
molybdenum	7439-98-7	TWA (Inhalable particulate matter)	10 mg/m3	2007-01-01	
molybdenum	7439-98-7	TWA (Respirable particulate matter)	3 mg/m3	2007-01-01	
molybdenum	7439-98-7	TWA (Inhalable particulate matter)	10 mg/m3	2019-03-05	
molybdenum	7439-98-7	TWA (Respirable particulate matter)	3 mg/m3	2019-03-05	

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		matter)			
molybdenum	7439-98-7	TWA (total dust)	15 mg/m3	2011-07-01	
molybdenum	7439-98-7	TWA (Total dust)	10 mg/m3	1989-01-19	
molybdenum	7439-98-7	PEL (Total dust)	10 mg/m3	2014-11-26	
molybdenum	7439-98-7	PEL (respirable dust fraction)	3 mg/m3	2014-11-26	
manganese	7439-96-5	TWA	0,2 mg/m3	2010-03-01	
manganese	7439-96-5	C (Fumes)	5 mg/m3	2011-07-01	
manganese	7439-96-5	TWA (Fumes)	1 mg/m3	2005-09-01	
manganese	7439-96-5	ST (Fumes)	3 mg/m3	2005-09-01	
manganese	7439-96-5	TWA	1 mg/m3	1989-01-19	
manganese	7439-96-5	STEL	3 mg/m3	1989-01-19	
manganese	7439-96-5	TWA (Fumes)	1 mg/m3	2013-10-08	
manganese	7439-96-5	ST (Fumes)	3 mg/m3	2013-10-08	
manganese	7439-96-5	TWA (Inhalable particulate matter)	0,1 mg/m3	2015-04-10	
manganese	7439-96-5	TWA (Respirable particulate matter)	0,02 mg/m3	2015-04-10	
manganese	7439-96-5	TWA (Fumes)	1 mg/m3	2013-10-08	
manganese	7439-96-5	ST (Fumes)	3 mg/m3	2013-10-08	
manganese	7439-96-5	PEL (Fumes)	0,2 mg/m3	2014-11-26	
manganese	7439-96-5	STEL (Fumes)	3 mg/m3	2014-11-26	
manganese	7439-96-5	TWA (Fumes)	1 mg/m3	1989-01-19	
manganese	7439-96-5	STEL (Fumes)	3 mg/m3	1989-01-19	

## 8.2 Exposure controls

### Personal protective equipment

Eye protection : Safety glasses

Hand protection

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

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- Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- : Dust impervious protective suit
- Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Respiratory protection : In the case of dust or aerosol formation use respirator with an approved filter.
- Use suitable breathing protection if workplace concentration requires.
- : In the case of dust or aerosol formation use respirator with an approved filter.
- Dust safety masks are recommended when the dust concentration is more than 10 mg/m<sup>3</sup>.

**Environmental exposure controls**

- General advice : Prevent product from entering drains.
- Prevent further leakage or spillage if safe to do so.
- If the product contaminates rivers and lakes or drains inform respective authorities.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

- Appearance : powder
- Colour : silver
- Odour : characteristic
- pH : substance/mixture is non-soluble (in water)
- Melting point/range : Not applicable
- Boiling point/boiling range : Not applicable
- Flash point : No data available

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Bulk density	: 0,24 - 0,39 kg/m <sup>3</sup>
Flammability (solid, gas)	: No data available
Auto-flammability	: No data available
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: No data available
Density	: 8 g/cm <sup>3</sup>
Solubility(ies)	
Water solubility	: insoluble
Miscibility with water	: immiscible
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Ignition temperature	: No data available
Thermal decomposition	: No data available
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Flow time	: No data available

**9.2 Other information**

Self-Accelerating decomposition temperature (SADT)	: No data available
Self-heating substances	: No data available
Heat of combustion	: No data available
Impact sensitivity	: No data available
Surface tension	: No data available

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Conductivity : No data available  
Sublimation point : No data available  
Molecular weight : No data available

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**SECTION 10: Stability and reactivity****10.1 Reactivity**

No decomposition if stored and applied as directed.

**10.2 Chemical stability**

No decomposition if stored and applied as directed.

**10.3 Possibility of hazardous reactions**

Hazardous reactions : No decomposition if stored and applied as directed.  
Dust may form explosive mixture in air.

**10.4 Conditions to avoid**

Conditions to avoid : No data available

**10.5 Incompatible materials**

Materials to avoid : No data available

**10.6 Hazardous decomposition products**

Other information : No data available

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**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Acute toxicity**

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**Components:****chromium :**

Acute oral toxicity : LD50 Oral : &gt; 5 000 mg/kg

Acute inhalation toxicity : LC50 : &gt; 5,41 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

**nickel :**

Acute oral toxicity : LD50 Oral : 9 000 mg/kg

**Skin corrosion/irritation****Product**

May cause skin irritation and/or dermatitis.

**Serious eye damage/eye irritation****Product**

Product dust may be irritating to eyes, skin and respiratory system.

**Respiratory or skin sensitisation****Product**

Causes sensitisation.

May cause sensitisation of susceptible persons by skin contact.

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May cause sensitisation of susceptible persons by inhalation of aerosol or dust.

**Carcinogenicity**

No data available

**Toxicity to reproduction/fertility**

No data available

**Reprod.Tox./Development/Teratogenicity**

No data available

**STOT - single exposure**

No data available

**STOT - repeated exposure**

No data available

**Aspiration toxicity**


No data available

**Further information****Product**

No data available

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**SECTION 12: Ecological information****12.1 Toxicity**

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**Components:****chromium (7440-47-3) :****Ecotoxicology Assessment**

Long-term (chronic) aquatic hazard : May cause long lasting harmful effects to aquatic life.

**nickel (7440-02-0) :****Ecotoxicology Assessment**

Long-term (chronic) aquatic hazard : Harmful to aquatic life with long lasting effects.

**12.2 Persistence and degradability**

No data available

**12.3 Bioaccumulative potential**

No data available

**12.4 Mobility in soil**

No data available

**12.5 Results of PBT and vPvB assessment**

No data available

**12.6 Other adverse effects****Product:**

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., May cause long lasting harmful effects to aquatic life.

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**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

- |                        |   |                                                                                                                                                                                                                                                                        |
|------------------------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product                | : | The product should not be allowed to enter drains, water courses or the soil.<br>Do not contaminate ponds, waterways or ditches with chemical or used container.<br>Send to a licensed waste management company.<br>In accordance with local and national regulations. |
| Contaminated packaging | : | Empty remaining contents.<br>Dispose of as unused product.<br>Do not re-use empty containers.<br>In accordance with local and national regulations.                                                                                                                    |

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**SECTION 14: Transport information****14.1 UN number****ADR**

Not dangerous goods

**TDG**

Not dangerous goods

**CFR**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

**14.2 Proper shipping name****ADR**

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Not dangerous goods

**TDG**

Not dangerous goods

**CFR**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

**14.3 Transport hazard class****ADR**

Not dangerous goods

**TDG**

Not dangerous goods

**CFR**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

**14.4 Packing group****ADR**

Not dangerous goods

**TDG**

Not dangerous goods

**CFR**

Not dangerous goods

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**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

**14.5 Environmental hazards****14.6 Special precautions for user**

Not classified as dangerous in the meaning of transport regulations.

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**


No data available

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	: Not applicable
REACH - List of substances subject to authorisation (Annex XIV)	: Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	: Not applicable
Regulation (EU) 2019/1021 on persistent organic pollutants (recast)	: Not applicable
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	: Banned and/or restricted (chromium) (nickel)

**15.2 Chemical safety assessment**

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No data available

**SECTION 16: Other information****Full text of H-Statements**

H317	: May cause an allergic skin reaction.
H333	: May be harmful if inhaled.
H334	: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H351	: Suspected of causing cancer.
H372	: Causes damage to organs through prolonged or repeated exposure if inhaled.
H373	: May cause damage to organs through prolonged or repeated exposure.

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