

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## STAY/STEEL LN 35

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Print Date: 31.01.2023          |
| 3.0     | 30.01.2023     | 102000002384 | Date of first issue: 09.01.2014 |

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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name : STAY/STEEL LN 35

Product code : 022232BF0

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

Use of the Substance/Mixture : Colouring agents, pigments

#### 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 of person responsible for the SDS : [msds.eckart@altana.com](mailto:msds.eckart@altana.com)

#### 1.4 Emergency telephone number

NCEC: +44 1235 239670 (Europe)  
Call and response in your language is possible.  
Contract no.: ECKART29003-NCEC.

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Not a dangerous substance according to GHS.

##### Information concerning particular hazards for human and environment:

Please refer to our website for further important safety instructions for handling aluminium powder:  
[http://www.eckart.net/fileadmin/eckart/Service/GDA\\_Alupulver\\_Safety\\_engl.pdf](http://www.eckart.net/fileadmin/eckart/Service/GDA_Alupulver_Safety_engl.pdf)

#### 2.2 Label elements

##### Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to the Globally Harmonised System (GHS).

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### Additional Labelling

EUH210 Safety data sheet available on request.

### 2.3 Other hazards

Combustible Solids

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Components

| Chemical name                                | CAS-No.<br>EC-No.<br>Index-No.<br>Registration number | ClassificationREGUL<br>ATION (EC) No<br>1272/2008 | Concentration<br>(% w/w) |
|--|---|---|--------------------------|
| chromium                                     | 7440-47-3<br><br>231-157-5                            | Aquatic Chronic 4;<br>H413                        | >= 10 - < 20             |
| Substances with a workplace exposure limit : |   |   |                          |
| manganese                                    | 7439-96-5<br><br>231-105-1                            |   | >= 1 - < 10              |

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

|                         |   |
|-------------------------|---|
| General advice          | : Move the victim to fresh air.   |
|                         | No hazards which require special first aid measures.  |
| If inhaled              | : If unconscious, place in recovery position and seek medical advice.<br>If symptoms persist, call a physician. |
| In case of skin contact | : Wash off immediately with soap and plenty of water.   |
| In case of eye contact  | : Remove contact lenses.<br>If eye irritation persists, consult a specialist.                                   |
| If swallowed            | : Keep respiratory tract clear.<br>Do not give milk or alcoholic beverages.                                     |

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Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.

### 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

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Dry sand  
Special powder against metal fire

Unsuitable extinguishing media : ABC powder  
Carbon dioxide (CO<sub>2</sub>)  
Water  
Foam

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

Specific hazards during firefighting : Contact with water liberates extremely flammable gas (hydrogen).

### 5.3 Advice for firefighters

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

Further information : Standard procedure for chemical fires.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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## SECTION 6: Accidental release measures

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

Personal precautions : Use personal protective equipment.  
Evacuate personnel to safe areas.  
Avoid dust formation.

### 6.2 Environmental precautions

Environmental precautions : The product should not be allowed to enter drains, water courses or the soil.

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

Methods for cleaning up : Use mechanical handling equipment.

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Do not use a vacuum cleaner.

Pick up and arrange disposal without creating dust.  
Sweep up and shovel.  
Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

For personal protection see section 8.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Avoid creating dust.  
Routine housekeeping should be instituted to ensure that  
dusts do not accumulate on surfaces.  
Keep away from heat and sources of ignition.  
Do not smoke.

For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the  
application area.

Advice on protection against fire and explosion : During processing, dust may form explosive mixture in air.  
Take measures to prevent the build up of electrostatic charge.  
Earthing of containers and apparatuses is essential. Use  
explosion-proof equipment. When transferring from one  
container to another apply earthing measures and use  
conductive hose material.

Normal measures for preventive fire protection.

Hygiene measures : General industrial hygiene practice.

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

Requirements for storage areas and containers : Reaction with water liberates extremely flammable gas  
(hydrogen) Store in original container. Keep containers tightly  
closed in a cool, well-ventilated place. Keep container closed  
when not in use. Keep away from sources of ignition - No  
smoking.

Electrical installations / working materials must comply with  
the technological safety standards.

Further information on storage conditions : Protect from humidity and water.

Advice on common storage : Do not store together with oxidizing and self-igniting products.  
Never allow product to get in contact with water during  
storage.  
Keep away from oxidizing agents, strongly alkaline and

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strongly acid materials in order to avoid exothermic reactions.

No materials to be especially mentioned.

Further information on storage stability : Keep in a dry place.  
No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

| Components | CAS-No.   | Value type (Form of exposure) | Control parameters                 | Basis       |
|------------|---|-------------------------------|------------------------------------|-------------|
| iron       | 7439-89-6   | TWA (Inhalable)               | 10 mg/m <sup>3</sup>               | GB EH40     |
|            |   | TWA (Respirable fraction)     | 4 mg/m <sup>3</sup>                | GB EH40     |
| chromium   | 7440-47-3   | TWA                           | 2 mg/m <sup>3</sup>                | 2006/15/EC  |
|            | Further information: Indicative   |                               |                                    |             |
|            |   | TWA                           | 0.5 mg/m <sup>3</sup>              | GB EH40     |
|            | Further information: Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used. |                               |                                    |             |
|            |   | TWA                           | 2 mg/m <sup>3</sup> (chromium)     | 2006/15/EC  |
|            | Further information: Indicative   |                               |                                    |             |
| manganese  | 7439-96-5   | TWA (inhalable fraction)      | 0.2 mg/m <sup>3</sup> (Manganese)  | 2017/164/EU |
|            | Further information: Indicative   |                               |                                    |             |
|            |   | TWA (Respirable fraction)     | 0.05 mg/m <sup>3</sup> (Manganese) | 2017/164/EU |
|            | Further information: Indicative   |                               |                                    |             |
|            |   | TWA (Inhalable)               | 0.2 mg/m <sup>3</sup> (Manganese)  | GB EH40     |
|            |   | TWA (Respirable fraction)     | 0.05 mg/m <sup>3</sup> (Manganese) | GB EH40     |
| molybdenum | 7439-98-7   | TWA                           | 10 mg/m <sup>3</sup> (Molybdenum)  | GB EH40     |
|            |   | STEL                          | 20 mg/m <sup>3</sup> (Molybdenum)  | GB EH40     |

#### Biological occupational exposure limits

| Substance name | CAS-No.   | Control parameters                                  | Sampling time | Basis       |
|----------------|-----------|---|---------------|-------------|
| chromium       | 7440-47-3 | chromium (chromium): 10 µmol/mol creatinine (Urine) | After shift   | GB EH40 BAT |

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### 8.2 Exposure controls

#### Personal protective equipment

|                          |   |  |
|--------------------------|---|--|
| Eye/face protection      | : | Face-shield<br>Safety glasses  |
| Hand protection          | : |  |
| Material                 | : | Leather  |
| Glove length             | : | Long sleeve gloves   |
| Remarks                  | : | Leather gloves The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. |
| Skin and body protection | : | Anti-static and fire resistant protective clothing. DIN EN 11612; EN 533; EN 1149-1. Anti-static safety shoes.   |
| Respiratory protection   | : | Use suitable breathing protection if workplace concentration requires.<br>Breathing apparatus with filter.<br>P1 filter  |

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|  |   |                    |
|--|---|--------------------|
| Physical state                                   | : | powder             |
| Colour   | : | silver             |
| Odour  | : | odourless          |
| Odour Threshold                                  | : | No data available  |
| Melting point/range                              | : | 660 °C             |
| Boiling point/boiling range                      | : | > 999 °C           |
| Flammability                                     | : | Combustible Solids |
| Upper explosion limit / Upper flammability limit | : | No data available  |
| Lower explosion limit / Lower flammability limit | : | 30 g/m3            |

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|  |   |   |
|--|---|---|
| Flash point                            | : | No data available                           |
| Auto-ignition temperature              | : | Not relevant                                |
| Decomposition temperature              | : | No data available                           |
| pH                                     | : | substance/mixture is non-soluble (in water) |
| Viscosity, kinematic                   | : | No data available                           |
| Solubility(ies)                        |   |   |
| Water solubility                       | : | insoluble                                   |
| Solubility in other solvents           | : | No data available                           |
| Partition coefficient: n-octanol/water | : | No data available                           |
| Vapour pressure                        | : | No data available                           |
| Relative density                       | : | No data available                           |
| Density                                | : | No data available                           |
| Relative vapour density                | : | No data available                           |

### 9.2 Other information

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 : Contact with acids and alkalis may release hydrogen.

Stable under recommended storage conditions.

Dust may form explosive mixture in air.

### 10.4 Conditions to avoid

Conditions to avoid : No data available

### 10.5 Incompatible materials

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Materials to avoid : Acids  
Bases  
Oxidizing agents  
Water

### 10.6 Hazardous decomposition products

This information is not available.

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## SECTION 11: Toxicological information

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

#### Acute toxicity

Not classified based on available information.

#### Components:

##### chromium:

|                           |   |
|---------------------------|---|
| Acute oral toxicity       | : LD50 Oral: > 5,000 mg/kg  |
| Acute inhalation toxicity | : LC50: > 5.41 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist |

##### manganese:

|                           |   |
|---------------------------|---|
| Acute oral toxicity       | : LD50 Oral: > 2,000 mg/kg  |
| Acute inhalation toxicity | : LC50: 5.14 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist |

#### Skin corrosion/irritation

Not classified based on available information.

#### Serious eye damage/eye irritation

Not classified based on available information.

#### Respiratory or skin sensitisation

##### Skin sensitisation

Not classified based on available information.

##### Respiratory sensitisation

Not classified based on available information.

#### Germ cell mutagenicity

Not classified based on available information.

#### Carcinogenicity

Not classified based on available information.



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### **Reproductive toxicity**

Not classified based on available information.

### **STOT - single exposure**

Not classified based on available information.

### **STOT - repeated exposure**

Not classified based on available information.

### **Aspiration toxicity**

Not classified based on available information.

## **11.2 Information on other hazards**

### **Further information**

#### **Product:**

Remarks : No data available

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## **SECTION 12: Ecological information**

### **12.1 Toxicity**

#### **Components:**

**chromium:**

#### **Ecotoxicology Assessment**

Chronic aquatic toxicity : May cause long lasting harmful effects to aquatic life.

### **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**

#### **Product:**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### **12.6 Endocrine disrupting properties**

No data available

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### 12.7 Other adverse effects

#### Product:

Additional ecological information : No data available

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## SECTION 13: Disposal considerations

European Waste Catalogue : 12 01 04 - non-ferrous metal dust and particles  
European Waste Catalogue : 10 03 21 - other particulates and dust (including ball-mill dust) containing hazardous substances

### 13.1 Waste treatment methods

Product : In accordance with local and national regulations.  
Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.  
In accordance with local and national regulations.

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## SECTION 14: Transport information

### 14.1 UN number or ID number

ADR : Not regulated as a dangerous good  
IMDG : Not regulated as a dangerous good  
IATA : Not regulated as a dangerous good

### 14.2 UN proper shipping name

ADR : Not regulated as a dangerous good  
IMDG : Not regulated as a dangerous good  
IATA : Not regulated as a dangerous good

### 14.3 Transport hazard class(es)

ADR : Not regulated as a dangerous good  
IMDG : Not regulated as a dangerous good  
IATA : Not regulated as a dangerous good

### 14.4 Packing group

ADR : Not regulated as a dangerous good  
IMDG : Not regulated as a dangerous good  
IATA (Cargo) : Not regulated as a dangerous good  
IATA (Passenger) : Not regulated as a dangerous good

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### 14.5 Environmental hazards

Not regulated as a dangerous good

### 14.6 Special precautions for user

Remarks : Not classified as dangerous in the meaning of transport regulations.

### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

## SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

|  |   |
|--|---|
| REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) | : Conditions of restriction for the following entries should be considered:<br>chromium (Number on list 72, 28)<br>nickel (Number on list 27) |
| Regulation (EC) No 1005/2009 on substances that deplete the ozone layer  | : Not applicable  |
| UK REACH List of substances subject to authorisation (Annex XIV)   | : Not applicable  |

### 15.2 Chemical safety assessment

No data available

## SECTION 16: Other information

### Full text of H-Statements

H413 : May cause long lasting harmful effects to aquatic life.

### Full text of other abbreviations

|                   |  |
|-------------------|--|
| Aquatic Chronic   | : Long-term (chronic) aquatic hazard   |
| 2006/15/EC        | : Europe. Indicative occupational exposure limit values  |
| 2017/164/EU       | : Europe. Commission Directive 2017/164/EU establishing a fourth list of indicative occupational exposure limit values |
| GB EH40           | : UK. EH40 WEL - Workplace Exposure Limits   |
| GB EH40 BAT       | : UK. Biological monitoring guidance values  |
| 2006/15/EC / TWA  | : Limit Value - eight hours  |
| 2006/15/EC / TWA  | : Limit Value - eight hours  |
| 2017/164/EU / TWA | : Limit Value - eight hours  |
| GB EH40 / TWA     | : Long-term exposure limit (8-hour TWA reference period)   |

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GB EH40 / STEL : Short-term exposure limit (15-minute reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

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.

GB / EN