

STAY/STEEL LN 25

Version 2.0

Revision Date 09.12.2019

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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 25
Material number : 022172BF0

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
Guntersthal 4
91235 Hartenstein
Telephone : +499152770
Telefax : +499152777008
E-mail address : 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**

Not a dangerous substance according to GHS.

Information concerning particular : Please refer to our website for further important

STAY/STEEL LN 25

Version 2.0

Revision Date 09.12.2019

Print Date 30.11.2024

hazards for human and environment: safety instructions for handling aluminium powder:
http://www.eckart.net/fileadmin/eckart/Service/GDA_Alupulver_Safety_engl.pdf

GHS-Labeling

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

Hazardous components which must be listed on the label**SECTION 3: Composition/information on ingredients**

Substance name : Versuch 83001257 VP 70448/G

Substance No. :

Hazardous components

Chemical name	CAS-No. EINECS-No.	Classification and labelling	Concentration[%]
chromium	7440-47-3 231-157-5	Aquatic Chronic;4;H413	10 - 20

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 : No hazards which require special first aid measures.
Move the victim to fresh air.

If inhaled : If unconscious, place in recovery position and seek medical advice.

STAY/STEEL LN 25

Version 2.0

Revision Date 09.12.2019

Print Date 30.11.2024

In case of skin contact	: Wash off immediately with soap and plenty of water.
In case of eye contact	: Remove contact lenses. 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.

4.2 Most important symptoms and effects, both acute and delayed

This information is not available.

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

Suitable extinguishing media	: Dry sand, Special powder against metal fire
Unsuitable extinguishing media	: ABC powder, Carbon dioxide (CO ₂), Water, Foam

5.2 Special hazards arising from the substance or mixture

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

STAY/STEEL LN 25

Version 2.0

Revision Date 09.12.2019

Print Date 30.11.2024

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

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

6.2 Environmental precautions

This information is not available.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Pick up and arrange disposal without creating dust.
Sweep up and shovel.
Keep in suitable, closed containers for disposal.
Use mechanical handling equipment.
Do not use a vacuum cleaner.

6.4 Reference to other sections

For personal protection see section 8.

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

Advice on safe handling : For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.

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.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

During processing, dust may form explosive mixture in air.

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

STAY/STEEL LN 25

Version 2.0

Revision Date 09.12.2019

Print Date 30.11.2024

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.

Hygiene measures : General industrial hygiene practice.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Electrical installations / working materials must comply with the technological safety standards.

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.

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

Advice on common storage : No materials to be especially mentioned.

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 strongly acid materials in order to avoid exothermic reactions.

Other data : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

This information is not available.

STAY/STEEL LN 25

Version 2.0

Revision Date 09.12.2019

Print Date 30.11.2024

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 ³	2014-04-02	DE TRGS 900
Peak-limit: excursion factor (category)		2;(II)			
Further information		Commission for dangerous substancesSenate commission for the review of compounds at the work place dangerous for the health (MAK-commission).			
iron	7439-89-6	AGW (Alveolate fraction)	1,25 mg/m ³	2014-04-02	DE TRGS 900
Peak-limit: excursion factor (category)		2;(II)			
Further information		Commission for dangerous substancesSenate commission for the review of compounds at the work place dangerous for the health (MAK-commission).			
chromium	7440-47-3	TWA	2 mg/m ³	2006-02-09	2006/15/EC
Further information		Indicative			
chromium	7440-47-3	AGW (Inhalable fraction)	2 mg/m ³	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 on the element content of the corresponding metal.			
chromium	7440-47-3	TWA	2 mg/m ³	2006-02-09	2006/15/EC
Further information		Indicative			
chromium	7440-47-3	AGW (Inhalable fraction)	2 mg/m ³	2018-06-07	DE TRGS 900

STAY/STEEL LN 25

Version 2.0

Revision Date 09.12.2019

Print Date 30.11.2024

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.				
manganese	7439-96-5	AGW (Inhalable fraction)	0,5 mg/m ³	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 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 ³	2017-02-01	2017/164/EU
Further information	Indicative				
manganese	7439-96-5	TWA (Respirable fraction)	0,05 mg/m ³	2017-02-01	2017/164/EU
Further information	Indicative				
manganese	7439-96-5	AGW (Inhalable fraction)	0,2 mg/m ³	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 ³	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				

STAY/STEEL LN 25

Version 2.0

Revision Date 09.12.2019

Print Date 30.11.2024

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 ³	2012-07-01	
iron	7439-89-6	TWA (respirable fraction)	5 mg/m ³	2012-07-01	
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/m ³	2014-11-26	
iron	7439-89-6	PEL (respirable dust fraction)	5 mg/m ³	2014-11-26	
chromium	7440-47-3	TWA	0,5 mg/m ³	2013-10-08	
chromium	7440-47-3	TWA	0,5 mg/m ³	2007-01-01	
chromium	7440-47-3	TWA	1 mg/m ³	1989-01-19	
chromium	7440-47-3	TWA	0,5 mg/m ³	2007-01-01	
chromium	7440-47-3	TWA	1 mg/m ³	1989-01-19	
chromium	7440-47-3	TWA	0,5 mg/m ³	2013-10-08	
chromium	7440-47-3	TWA	1 mg/m ³	2011-07-01	
chromium	7440-47-3	PEL	0,5 mg/m ³	2014-11-26	
chromium	7440-47-3	TWA	0,5 mg/m ³	2007-01-01	
chromium	7440-47-3	TWA	0,5 mg/m ³	2018-03-20	
manganese	7439-96-5	TWA	0,2 mg/m ³	2010-03-01	
manganese	7439-96-5	C (Fumes)	5 mg/m ³	2011-07-01	
manganese	7439-96-5	TWA (Fumes)	1 mg/m ³	2005-09-01	
manganese	7439-96-5	ST (Fumes)	3 mg/m ³	2005-09-01	
manganese	7439-96-5	TWA	1 mg/m ³	1989-01-19	
manganese	7439-96-5	STEL	3 mg/m ³	1989-01-19	
manganese	7439-96-5	TWA (Fumes)	1 mg/m ³	2013-10-08	
manganese	7439-96-5	ST (Fumes)	3 mg/m ³	2013-10-08	
manganese	7439-96-5	TWA (Fumes)	1 mg/m ³	1989-01-19	
manganese	7439-96-5	STEL (Fumes)	3 mg/m ³	1989-01-19	
manganese	7439-96-5	TWA (Inhalable fraction)	0,1 mg/m ³	2015-04-10	
manganese	7439-96-5	TWA (Respirable)	0,02 mg/m ³	2015-04-10	

STAY/STEEL LN 25

Version 2.0

Revision Date 09.12.2019

Print Date 30.11.2024

		fraction)			
manganese	7439-96-5	TWA (Fumes)	1 mg/m ³	2013-10-08	
manganese	7439-96-5	ST (Fumes)	3 mg/m ³	2013-10-08	
manganese	7439-96-5	PEL (Fumes)	0,2 mg/m ³	2014-11-26	
manganese	7439-96-5	STEL (Fumes)	3 mg/m ³	2014-11-26	
molybdenum	7439-98-7	TWA (Inhalable fraction)	10 mg/m ³	2007-01-01	
molybdenum	7439-98-7	TWA (Respirable fraction)	3 mg/m ³	2007-01-01	
molybdenum	7439-98-7	TWA (Inhalable fraction)	10 mg/m ³	2013-03-01	
molybdenum	7439-98-7	TWA (Respirable fraction)	3 mg/m ³	2013-03-01	
molybdenum	7439-98-7	TWA (total dust)	15 mg/m ³	2011-07-01	
molybdenum	7439-98-7	TWA (Total dust)	10 mg/m ³	1989-01-19	
molybdenum	7439-98-7	PEL (Total dust)	10 mg/m ³	2014-11-26	
molybdenum	7439-98-7	PEL (respirable dust fraction)	3 mg/m ³	2014-11-26	

8.2 Exposure controls

Personal protective equipment

Eye protection : Safety glasses
: Face-shield

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

STAY/STEEL LN 25

Version 2.0

Revision Date 09.12.2019

Print Date 30.11.2024

Respiratory protection : 11612; EN 533; EN 1149-1. Anti-static safety shoes.
Use suitable breathing protection if workplace concentration requires.
Breathing apparatus with filter.
P1 filter

Environmental exposure controls

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

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

Appearance : solid
Colour : grey
Odour : odourless
pH : No data available
Melting point/range : 660 °C
Boiling point/boiling range : No data available
Flash point : No data available
Bulk density : No data available
Flammability (solid, gas) : No data available
Auto-flammability : No data available
Upper explosion limit : No data available
Lower explosion limit : 30 g/m³

Vapour pressure : No data available
Density : No data available
Solubility(ies)

STAY/STEEL LN 25

Version 2.0

Revision Date 09.12.2019

Print Date 30.11.2024

Water solubility	: insoluble
Miscibility with water	: insoluble
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

No data available

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 : Stable under recommended storage conditions.

Contact with acids and alkalis may release hydrogen.

10.4 Conditions to avoid

Conditions to avoid : No data available

10.5 Incompatible materials

Materials to avoid : Acids

STAY/STEEL LN 25

Version 2.0

Revision Date 09.12.2019

Print Date 30.11.2024

Bases
Oxidizing agents
Water

10.6 Hazardous decomposition products

Hazardous decomposition products : No data available

Other information : No data available

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

Acute oral toxicity : LD50 Oral : > 5 000 mg/kg

Acute inhalation toxicity : LC50 : > 5,41 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

STAY/STEEL LN 25

Version 2.0

Revision Date 09.12.2019

Print Date 30.11.2024

Respiratory or skin sensitisation

No data available

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

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

STAY/STEEL LN 25

Version 2.0

Revision Date 09.12.2019

Print Date 30.11.2024

SECTION 12: Ecological information**12.1 Toxicity**

No data available

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 : No data available

STAY/STEEL LN 25

Version 2.0

Revision Date 09.12.2019

Print Date 30.11.2024

SECTION 13: Disposal considerations**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.

SECTION 14: Transport information**14.1 UN number****14.2 Proper shipping name****14.3 Transport hazard class****14.4 Packing group****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

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

STAY/STEEL LN 25

Version 2.0

Revision Date 09.12.2019

Print Date 30.11.2024

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59) : Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable
Regulation (EC) No 850/2004 on persistent organic pollutants : 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.

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.