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Safety Data Sheet

acc. to OSHA HCS

Printing date 01/02/2017

1 Identification

Product identifier Trade name: <u>AMACAST</u> Application of the substance / the mixture Cast Chrome Steel abrasive

Details of the supplier of the safety data sheet Manufacturer/Supplier: Ervin Industries, Inc. 3893 Research Park Drive Ann Arbor, MI 48108-2217 Phone: (734)-769-4600/Fax: (734)-663-0136 sales@ervinindustries.com http://www.ervinindustries.com/ Information department:

Qualtity Assurance Department (mo-thu: 8a.m.-4p.m., fr 8a.m.-1p.m.)

Emergency telephone number: Phone: (734)-769-4600/Fax: (734)-663-0136

2 Hazard(s) identification

Classification of the substance or mixture *The product is not classified according to the Globally Harmonized System (GHS).*

Label elements GHS label elements Void Hazard pictograms Void Signal word Void Hazard statements Void Classification system: NFPA ratings (scale 0 - 4)

> Health = 0 Fire = 0 Reactivity = 0

HMIS-ratings (scale 0 - 4)



Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.

3 Composition/information on ingredients

Chemical characterization: Mixtures

Description: Mixture: consisting of the following components.

Dangerous components:		
CAS: 7440-47-3	chromium	<20%
CAS: 7440-02-0 Reg.nr.: 01-2119438727-	nickel 29	<10%
CAS: 7440-21-3	silicon	<3%
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CAS: 7439-96-5	manganese	<2%
CAS: 7440-44-0	carbon	<0.25%

4 First-aid measures

Description of first aid measures

General information: No special measures required.

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact:

Generally the product does not irritate the skin.

Rinse with warm water.

If skin irritation continues, consult a doctor.

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

Rinse out mouth and then drink plenty of water.

If symptoms persist consult doctor.

Information for doctor:

Most important symptoms and effects, both acute and delayed No further relevant information available. Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire-fighting measures

Extinguishing media

Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.

For safety reasons unsuitable extinguishing agents: Water with full jet

Special hazards arising from the substance or mixture No further relevant information available.

Advice for firefighters

Protective equipment:

Do not inhale explosion gases or combustion gases.

Wear self-contained respiratory protective device.

Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid formation of dust.

Product forms slippery surface when combined with water.

Use respiratory protective device against the effects of fumes/dust/aerosol.

Environmental precautions: Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up: Pick up mechanically.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information. **Protective Action Criteria for Chemicals**

PAC-1:		
7439-89-6	iron	3.2 mg/m3
7440-47-3	chromium	1.5 mg/m3
7440-21-3	silicon	45 mg/m3
7440-44-0	carbon	6 mg/m3
PAC-2:		
7439-89-6	iron	35 mg/m3
7440-47-3	chromium	17 mg/m3
7440-21-3	silicon	100 mg/m3
7440-44-0	carbon	330 mg/m3
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PAC-3:		
7439-89-6	iron	150 mg/m3
7440-47-3	chromium	99 mg/m3
7440-21-3	silicon	630 mg/m3
7440-44-0	carbon	2,000 mg/m3

7 Handling and storage

Handling:

Precautions for safe handling No special measures required. Information about protection against explosions and fires: No special measures required.

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: *None.*

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

8 Exposure controls/personal protection

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

Control parameters

Components with limit values that require monitoring at the workplace:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

	· · · · · · · · · · · · · · · · · · ·		
7440	-47-3 chromium		
PEL	Long-term value: 1 mg/m ³		
REL	Long-term value: 0.5* mg/m³		
	*metal+inorg.compds.as Cr;See Pocket Guide App. C		
TLV	Long-term value: 0.5 mg/m³		
7440	-21-3 silicon		
PEL	Long-term value: 15* 5** mg/m ³ *total dust **respirable fraction		
REL	Long-term value: 10* 5** mg/m ³ *total dust **respirable fraction		
TLV	TLV withdrawn		
7439	-96-5 manganese		
PEL	Ceiling limit value: 5 mg/m³ as Mn		
REL	Short-term value: 3 mg/m ³		
	Long-term value: 1 mg/m ³		
	fume, as Mn		
TLV	Long-term value: 0.02* 0.1* mg/m ³		
	as Mn; *respirable **inhalable fraction		
Ac	dditional information: The lists that were valid during the creation were used as basis.		
Expo	osure controls		
Per	sonal protective equipment:		
General protective and hygienic measures:			
The usual precautionary measures for handling chemicals should be followed.			
Breathing equipment: Filter P2			
Protection of hands:			
	Leather gloves Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation		
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Material of gloves

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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.

The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended. Eye protection:

Tightly sealed goggles

Body protection: Protective work clothing

9 Physical and chemical properties

Information on basic physical and chemical properties		
General Information		
Appearance:		
Form:	Solid	
Color:	Dark grey	
Odor:	Odorless	
Odor threshold:	Not determined.	
pH-value:	Not applicable.	
Change in condition		
Melting point/Melting range:	1371-1483 °C (2500-2701 °F)	
Boiling point/Boiling range:	2850-3150 °C (5162-5702 °F)	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Not determined.	
Ignition temperature:		
Decomposition temperature:	Not determined.	
Auto igniting:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapor pressure:	Not applicable.	
Density at 20 °C (68 °F):	>7.6 g/cm³ (>63.422 lbs/gal)	
Relative density	Not determined.	
Vapor density	Not applicable.	
Evaporation rate	Not applicable.	
Solubility in / Miscibility with		
Water:	Insoluble.	
Partition coefficient (n-octanol/water): Not determined.		
Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
Solvent content:		
Organic solvents:	0.0 %	
VOC content:	0.0 g/l / 0.00 lb/gl	
Solids content:	100 %	
Other information	No further relevant information available.	
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10 Stability and reactivity

Reactivity No further relevant information available.

Chemical stability

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications. Possibility of hazardous reactions No dangerous reactions known.

Conditions to avoid No further relevant information available.

Incompatible materials: No further relevant information available.

Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

Information on toxicological effects

Acute toxicity:

Primary irritant effect:

on the skin: No irritant effect.

on the eye: No irritating effect.

Sensitization:

Examination nickel release in accordance with DIN EN 1811: 2012-10: done Sample Number 2016-00916

<0.1 µg per cm2 and week

therefore no sensitization detected.

Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations: When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

Carcinogenic categories

IARC (IARC (International Agency for Research on Cancer)	
7440-47-3	chromium	
7440-02-0	nickel	
NTP (I	National Toxicology Program)	
7440-02-0	nickel	
OSHA-Ca (Occupational Safety & Health Administration)		
None of the ingredients is listed.		

12 Ecological information

Toxicity

Aquatic toxicity: No further relevant information available. Persistence and degradability No further relevant information available. Behavior in environmental systems: Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available. Additional ecological information: General notes: Water hazard class 1 (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.

Other adverse effects No further relevant information available.

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13 Disposal considerations

Waste treatment methods

Recommendation:

Contact manufacturer for recycling information.

completely emptied packaging in 25kg paper bag: paper recycling

completely emptied packaging in big bags: commercial waste disposal completely emptied packaging in steel barrels: metal recycling

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

14 Transport information

Void
Void
Void
Void
No
Not applicable.
f Not applicable.
Void

15 Regulatory information

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

Section 355 (extremely hazardous substances):			
None of the ingredient is listed.			
Section 313 (Specific toxic chemical listings):			
7440-47-3	chromium		
7440-02-0			
7439-96-5	manganese		
TSCA (T	TSCA (Toxic Substances Control Act):		
All ingredie	All ingredients are listed.		
Proposition 65			
Chemicals known to cause cancer:			
7440-02-0 nickel			
Chemicals known to cause reproductive toxicity for females:			
None of the ingredients is listed.			
Chemicals known to cause reproductive toxicity for males:			
None of the ingredients is listed.			
Chemicals known to cause developmental toxicity:			
None of the ingredients is listed.			
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Cancerogenity categories

EPA (Environmental Protection Agency) 7440-47-3 chromium D 7439-96-5 manganese D TLV (Threshold Limit Value established by ACGIH) 7440-47-3 chromium A4 7440-02-0 nickel A5 NIOSH-Ca (National Institute for Occupational Safety and Health) 7440-02-0 nickel **GHS label elements** Void

Hazard pictograms Void Signal word Void Hazard statements Void

National regulations:

Information about limitation of use: Employment restrictions concerning young persons must be observed. Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Contact: Dr. W. Assmann Date of preparation / last revision 01/02/2017 / 4 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 DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists 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) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, ÉU) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit

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