SAFETY DATA SHEET

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 453/2010

1. SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE **COMPANY/UNDERTAKING**

Product identifier

Product Name

Low Carbon Ferro Chrome.

Generic name

Ferro Chrome.

Synonym(s)

LCFeCr, Ferro Chrome, Ferro Chromium.

CAS No. EINECS No.

Mixture. Mixture.

REACH Registration No.

None assigned.

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

Identified use(s)

Raw material for the manufacture of various grades of

stainless steel, high chromium castings, speciality steels and

carbon steels.

Uses advised against

None known.

Details of the supplier of the Safety Data Sheet 1.3

Company Identification

Ruschrome Trading GmbH

Industriestrasse 4 70565 Stuttgart

Germany.

Telephone Fax

+49-711-49047735. +49-711-49047739.

E-Mail (competent person)

reach@russianchrome.com

Emergency telephone number 1.4

Emergency Phone No.

+49-711 49047735 (09.00 - 17.00).

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Regulation (EC) No. 1272/2008 (CLP) 2.1.1

Not classified as dangerous for supply/use. Not classified as dangerous for supply/use.

Directive 67/548/EEC & Directive 1999/45/EC

According to Regulation (EC) No. 1272/2008 (CLP)

Label elements 2.2

2.1.2

Low Carbon Ferro Chrome.

Product Name Hazard Pictogram

None.

Signal word(s)

None.

Hazard statement(s)

None.

Precautionary statement(s)

None.

2.2.2 Label elements

Hazard Symbol

According to Directive 67/548/EEC & Directive 1999/45/EC None.

Risk Phrases Safety Phrases

None None.

2.3 Other hazards Repeated and/or prolonged contact may cause dermatitis.

High temperature processes can lead to generation of fumes

containing chromium (VI).

Additional Information 2.4

None.

3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Mixtures

EC Classification No. 1272/2008

Hazardous ingredient(s)	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard pictogram(s) and Hazard statement(s)	
Chromium	≥68	7440-47-3	231-157-5	01-2119485652-31-0012	None.	
Iron Oxide	28-34	1309-37-1	215-168-2	01-2119462838-24-0127	None.	
Carbon	0. 1- 0.5	7440-44-0	231-153-3	None assigned.	None.	
Silicon	≤2.0	7440-21-3	231-130-8	None assigned.	None.	

EC Classification No. 67/548/EEC

Hazardous ingredient(s)	%W/W	CAS No.	EC No.	REACH Registration No.	EC Classification and Risk Phrases	
Chromium	≥68	7440-47-3	231-157-5	01-2119485652-31-0012	None.	
Iron Oxide	28-34	1309-37-1	215-168-2	01-2119462838-24-0127	None.	
Carbon	0.01-0.5	7440-44-0	231-153-3	None assigned.	None.	
Silicon	≤2.0	7440-21-3	231-130-8	None assigned.	None,	

3.2 Additional Information

None.

4. SECTION 4: FIRST AID MEASURES



4.1 Description of first aid measures

Inhalation

Unlikely route of exposure.

High temperature processing: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get immediate medical advice/attention.

Skin Contact

Wash affected skin with soap and water. If symptoms persist, obtain medical attention.

Eye Contact

Flush eyes with water for at least 15 minutes while holding eyelids open. If symptoms persist, obtain medical attention. If swallowed, rinse mouth with water (only if the person is conscious). Get medical advice/attention.

Ingestion

Repeated and/or prolonged contact may cause dematitis.

4.2 Most important symptoms and effects, both acute and delayed

4.3 Indication of immediate medical attention and special treatment needed

Unlikely to be required but if necessary treat symptomatically.

5. SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing Media

Suitable Extinguishing Media

Extinguish with dry chemical, dry sand or special powder for metal fire only.

Unsuitable Extinguishing Media

Onsaid becade add a four the cubet

Water.

5.2 Special hazards arising from the substance or mixture

Decomposes in a fire giving off toxic fumes: Chromium (VI).

5.3 Advice for fire-fighters

Do not breathe fumes. Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment

and emergency procedures

6.2 **Environmental precautions**

Methods and material for containment and 6.3 cleaning up

Reference to other sections 6.4

6.5 **Additional Information** Ensure adequate ventilation. Wear suitable protective

clothing, gloves and eye/face protection.

Do not allow to enter drains, sewers or watercourses. Sweep substance into clean dry container. Transfer to a

container for disposal. See Also Section 8 and 13.

None.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling Provide adequate ventilation. Do not breathe fumes. Avoid prolonged skin contact. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling. Do not eat, drink or smoke during

7.2 Conditions for safe storage, including any

incompatibilities

Storage Temperature

Storage Life

Incompatible materials

7.3 Specific end use(s) Ambient.

Stable under normal conditions. Strong oxidising agents and Acids.

Raw material for the manufacture of various grades of

Store in a dry place. Keep away from moisture.

stainless steel, high chromium castings, speciality steels and

carbon steels.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational Exposure Limits

SUBSTANCE.	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m³)	Note:
Chromium	7440-47-3	124	0.5		:	WEL
Iron Oxide	1309-37-1	127	5	E	10	WEL
Carbon	7440-44-0	720	10	身	2£:	WEL: Inhalable Dust
		(*)	4	₩.		WEL: Respirable Dust
Silicon	7440-21-3	(3 //	10	- 5	.57.1	WEL: Inhalable Dust
		27	4	10	%	WEL: Respirable Dust

WEL: Workplace Exposure Limit (UK HSE EH40).

8.1.2 **Biological limit value** Not established.

8.1.3 PNECs and DNELs

Not established.

8.2 **Exposure controls**

8.2.1 Appropriate engineering controls 8.2.2

Provide adequate ventilation.

Personal protection equipment

Wear suitable eye/face protection.

Eve/face protection

Skin protection (Hand protection/ Other)

Wear suitable gloves.



Respiratory protection

Not normally required.

High temperature processing: The following information is given as general guidance. Where engineering controls are



not fitted or inadequate wear suitable respiratory protective

equipment.

Wear: EN149:2001 FFP2. Use a respirator/filter with at least:

PF10: 10 x Protection Factor.

Not applicable.

Do not allow to enter drains, sewers or watercourses.

8.2.3 Environmental Exposure Controls

Thermal hazards

9.1 Information on basic physical and chemical

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

properties

Form

Appearance

Colour

Odour

Odour

Odour Threshold (ppm)

pH (Value)
Melting Point (°C)

Boiling Point (°C) Flash Point (°C)

Evaporation rate Flammability (solid, gas) Explosive limit ranges

Vapour Pressure (mm Hg) Vapour Density (Air=1) Density (g/ml)

Bulk Density Solubility (Water) Solubility (Other)

Partition Coefficient (n-Octanol/water) Auto Ignition Temperature (°C) Decomposition Temperature (°C)

Viscosity (mPa.s)
Explosive properties
Oxidising properties

9.2 Other information

Solid.

Metallic Silvery Grey.

Odourless. Not available. Not applicable.

>1500°C. Not available. Not applicable.

Not applicable. Non-flammable. Not applicable. Not applicable.

Not applicable. ~6.9g/ml. 3400 - 3700kg/m³.

Insoluble in water. Not available. Not applicable.

Not applicable. Not available. Not applicable. Not explosive. Not available.

None.

10. SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

10.2 Chemical stability

10.3 Possibility of hazardous reactions

10.4 Conditions to avoid

10.5 Incompatible materials10.6 Hazardous Decomposition Product(s)

Stable under normal conditions. Stable under normal conditions.

Reacts with - Acids: Generate flammable hydrogen gas.

Keep away from moisture.

Strong oxidising agents and Acids.

High temperature processes can lead to generation of

fumes containing chromium (VI).

11. SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

11.1.2 Mixtures

Acute toxicity

Irritation

Low acute toxicity.

Not classified. High temperature processes can lead to generation of fumes containing chromium (VI).

Chromium (VI): May produce an allergic reaction.

Not classified.

Corrosivity Sensitisation

Repeated dose toxicity

Carcinogenicity

It is not a skin sensitiser.

Repeated and/or prolonged contact may cause dermatitis. Not classifiable as to its carcinogenicity to humans.

IMPORTANT:

High temperature processes can lead to generation of

fumes containing chromium (VI).

Chromium (VI) is listed as a carcinogen by: IARC, NIOSH,

Mutagenicity

Toxicity for reproduction

There is no evidence of mutagenic potential.

None anticipated.

11.2 Other information None.

12. SECTION 12: ECOLOGICAL INFORMATION

12.1 Not harmful to aquatic organisms. Toxicity

12.2 Persistence and degradability The methods for determining the biological degradability are

not applicable to inorganic substances.

Bioaccumulative potential The substance has no potential for bioaccumulation.

12.4 Mobility in soil

Insoluble in water. The substance has low mobility in soil.

Results of PBT and VPVB assessment 12.5 Not classified as PBT or vPvB.

12.6 Other adverse effects None known.

13. SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods Recycle. Refer to manufacturer/supplier for information on

recovery/recycling.

13.2 **Additional Information** Disposal should be in accordance with local, state or

national legislation.

14. SECTION 14: TRANSPORT INFORMATION

Not classified as dangerous for transport.

14.1 **UN number** Not applicable. 14.2 **Proper Shipping Name** Not applicable. 14.3 Transport hazard class(es) Not applicable. 14.4 **Packing Group** Not applicable. 14.5 **Environmental hazards** Not applicable. 14.6 Special precautions for user Not applicable. Not applicable.

14.7 Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code

14.8 **Additional Information** Not applicable.

15. SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the

substance or mixture

15.1.1 EU regulations

Authorisations and/or restrictions on use

None known.

15.1.2 National regulations None known.

Chemical Safety Assessment

Not available.

16. SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

LEGEND

LTEL Long Term Exposure Limit STEL Short Term Exposure Limit STOT Specific Target Organ Toxicity DNEL Derived No Effect Level

PNFI Predicted No Effect Concentration

PBT PBT: Persistent, Bioaccumulative and Toxic vPvB vPvB: very Persistent and very Bioaccumulative

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Annex to the extended Safety Data Sheet (eSDS) No information available.

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