

In accordance with Annex II to Regulation (EC) 1907/2006, as amended by Regulation 453/2010

	Ferrochrome N-containing (FeCr N) molten, Ferrochromium N-containing
	molten,
	According to the REACH-regulations, FeCr is handeled as a preparation out of
	Iron and Chromium.
1.1 Product Identifier	Iron: CAS-Nr.: 7439-89-6 – EINECS: 231-096-4
	EWW-REACH-Registration-No. for Iron: 01-2119462838-24-0066
	Chromium: CAS-Nr.: 7440-47-3 – EINECS: 231-157-5
	EWW-REACH-Registration-No. for Chromium: 01-2119485652-31-0016
	This product is used as raw material for the manufacture of various
1.2 Relevant identified uses of the	grades of stainless steel, high chromium casting, specialty steel and
substance and uses advised against	welding.
substance and uses advised against	No uses advised against.
1.3 Details of supplier of the safety da	
1.3.1 Name of supplier or	Elektrowerk Weisweiler GmbH, Dürener Str. 487, D-52249 Eschweiler,
manufacturer	Germany, Tel.: +49 2403 / 646 - 0
1.3.2 Person responsible in EU	Elektrowerk Weisweiler GmbH, Dürener Str. 487, D-52249 Eschweiler,
member state	Germany, Tel.: +49 2403 / 646 - 0
4.2.2 Only remuce enteting	Elektrowerk Weisweiler GmbH, Dürener Str. 487, D-52249 Eschweiler,
1.3.3 Only representative	Germany, Tel.: +49 2403 / 646 - 0
	Elektrowerk Weisweiler GmbH, Dürener Str. 487, D-52249 Eschweiler,
	Germany, Tel.: +49 2403 / 646 – 0
1.4 Emergency telephone number	Monday to Friday between 08.00 and 16.00 please contact the Quality
	Department : Tel.: +49 2403 / 646-349
SEC	TION2: HAZARDS IDENTIFICATION
	This product does not meet the classification requirements of the
2.1 Classification of the substance	current European legislation on classification and labeling that are
	applicable for substances.
2.2. Label elements	This product is not hazardous. Labeling is not required.
	Though not considered to be hazardous, material should be handled
2.3 Other Hazards	with acceptable safe methods of industrial hygiene. See section 8 for
	personal protection.
	If a significant amount of dust is present, precautions should be taken
During handling	to limit this exposure through normal control procedures such as local
	exhaust ventilation(LEV) or respiratory protective equipment(RPE)
	Fumes may be produced during the melting operations.
During use	Chromium may be present in these fumes in oxidized forms, some of
	which maybe hazardous. See guidance on safe use.

SECTION 1. IDENTIFICATION OF SUBSTANCE AND COMPANY



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SECTION3: COMPOSITION INFORMATION ON INGREDIENTS					
3.1 Substances					
Component	CAS Nr	EINECS/ELINCS	Amount (%)	Symbol	R-Phrases
Chromium (metallic)	7440-47-3	231-157-5	60-70%	Cr	None
Iron (metallic)	7439-89-6	231-096-4	Balance	Fe	None
Nitrogen	7727-37-9	231-783-9	3-4%	N	None
Silicon	7440-21-3	231-130-8	0.1-1.5%	Si	None
Nickel Other Components	7440-02-0	231-111-4	0.1-0.4%	Ni	None at this concentration range
Additional Informat Amounts indicated	are typical and do not	t represent a specificati			
		CTION 4: FIRST AID I	MEASURES		
4.1 Description of	f first aid measures	1			
Inhalation	Inhalation Move the person to fresh air - if respiratory problem persists, seek medical attention				n persists, seek
Skin contact					
Eye contact Wash with water to remove dust.					
		Seek medical attention if discomfort persists			
Ingestion No known effects 4.2 Most important symptoms and This product is considered as non-hazardous					
-		This product is consi	dered as non-na	izardous	
effects, both acute and delayed 4.3 Indication of any immediate					
medical attention and special		No relevant informati	No relevant information has been identified		
treatment needed					
SECTION 5: FIRE-FIGHTING MEASURES					
5.1 Extinguishing	5.1 Extinguishing media Ferrochrome is not combustible				
5.2 Special hazards arising from the substance or mixture Ferrochrome is not combustible					

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5.3 Advice for fire-fighters	Ferrochrome is not c	ombustible		
SECTION	6: ACCIDENTAL REL	EASE MEASURES		
6.1 Personal precautions, protective equipment and emergency procedures	Eye protection and respirators should be worn were dust is a potential hazard. Gloves should be worn when handling this material because of the risk of contact with sharp particles			
6.2 Environmental precautions	There are no special procedures for this material			
6.3 Methods and material for containment and cleaning up	Collect spillage in a closed container. Follow good housekeeping. Avoid excessive dust generation Material may be reclaimed for re-use.			
SECT	ION 7: HANDLING A			
7.1 Precautions for safe handling	The product is a heavy and dense material. Protective equipment should be worn when handling the material. Gloves should be worn as sharp particles may pierce the skin. Safety goggles and respirators should be worn where dust occurs			
7.2 Conditions for safe storage, including any incompatibilities	The product is stable in storage and should be kept dry. If not protected from weathering, a slight tarnishing may occur to the surface of the material, which is non-toxic and does not in any way detract from the properties and quality of the material.			
7.3 Specific end use(s)	See section 1.2 above			
SECTION 8: EXPO	OSURE CONTROL / I	PERSONAL PROTECT	TION	
8.1 Control parameters				
8.1.1 National limit values				
8.1.2 National occupational exposure limit values	EU OEL 2mg Cr / m	i		
	Substance	DNEL	PNEC	
8.1.3 DNEL and PNEC	Chromium Iron	0.5 mg Cr / m ³	4.7 μg / I (Cr3)	
8.2 Exposure controls				
8.2.1 Appropriate engineering controls	Local exhaust ventila	tion (LEV)		
8.2.2 Individual protection measures, s	uch as personal pro	tective equipment		
Eye/face protection	Goggles / face shield	l if dust is a hazard		
Skin	Long sleeves overall	s; gloves for hands, wh	nere applicable	
Respiratory	If exposure is above the Occupational Health limits, respirators as approved by national authorities should be used.			
Thermal hazards	Not identified			
8.2.3 Environmental exposure	Do not wash spilled materials into drainage system, material may			



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controls	block drains.			
SECTION 9:	PHYSICAL AND CHEMICAL PROPERTIES			
9.1 Information on basic physical and chemical properties				
Appearance	Metallic silver grey lumps, chips or fine material			
Odour	No odour			
Odour threshold	Not applicable as there is no odour			
рН	Not relevant			
Melting point	1425 - 1515 C			
Boiling point	2700C – 3000C			
Flash point	Not relevant			
Evaporation rate	Not relevant			
Flammability	Not flammable			
Upper/lower flammability or explosive limits	Not relevant			
Vapour pressure	Not relevant			
Vapour density	Not relevant			
Relative density	7,2 t/m3			
Solubility	Insoluble in water			
Partition coefficient: n-octanol/water	Not relevant			
Auto-ignition temperature	Not relevant			
Decomposition temperature	Not relevant			
Viscosity;	Not relevant			
Explosive properties;	No explosive properties			
Oxidising properties	Not oxidizing properties			
9.2 Other information				
Bulk density	2.8 –3.5 t/m ³			
SECTION 10: STABILITY AND REACTIVITY				
10.1 Reactivity	The product does not contain reactive functionalities			
10.2 Chemical stability	The product is chemically stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.			
10.3 Possible hazardous reactions	Can react with some acids with the evolution of hydrogen Can react with molten alkalis with the formation of compounds			

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containing chromium (VI) It is known that high temperature processes including production welding of chromium and chromium-containing alloys can lead t generation of fumes containing chromium(VI). Although the pred identity of the chromium(VI)substances present has not been id it is important to recognize that several substances containing chromium(VI) have been classified as carcinogenic, mutagenic, for reproduction and dangerous for the environment. It is therefor essential that workplace and releases to the environment assoc with these activities are monitored to ensure compliance with na and/or Community legislative limits. The European Confederation Iron and Steel Industries (Eurofer), the European Association of Metals (Eurometaux) and the European Welding Association (E			ining alloys can lead to (VI). Although the precise esent has not been identified bstances containing cinogenic, mutagenic, toxic vironment. It is therefore he environment associated are compliance with national curopean Confederation of ropean Association of Velding Association (EWA)	
	alloys, compileo (www.eurofer.b	jointly developed Safe Use Recommendations for welding metals a alloys, compiled in a document that is available for REACH purpos (www.eurofer.be).		
10.4 Conditions to avoid		Once molten, charge chrome produces fumes. Dust suspended in air		
		could cause dust explosions		
10 E Incompatible motorie		Can react with some acids with the evolution of hydrogen		
10.5 Incompatible materia		Can react with molten alkalis with the formation of compounds		
10.6 Hazardous decompo products	sition	containing chromium (VI) - see 10.3 above See section 10.3 and 10.5		
	SECTION 11: TOXICOLO	GICAL INFORMATION		
11.1 Information on toxico	ological effects			
(a) acute toxicity;	No acute toxicity	ý		
(b) skin corrosion/irritatio				
(c) serious eye damage/ir				
(d) respiratory or skin ser				
(e) germ cell mutagenicity	-			
(f) carcinogenicity;	Not carcinogeni	Not carcinogenic		
(g) reproductive toxicity;		Not toxic for reproduction		
(h) STOT-single exposure; No STOT single				
(i) STOT-repeated exposure; No STOT repeate		•		
(j) aspiration hazard. No aspiration				
	SECTION 12: ECOLOG	CAL INFORMATION		
12.1 Toxicity	Not ecotoxic			
12.2 Persistence and degi	radability Not relevant			
12.3 Bioaccumulative pote	-			
12.4 Mobility in soil		ubility in water, immobile		
12.5 Results of PBT and vPvB Not relevant		-		

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assessment			
12.6 Other adverse effects	None identified		
SECTIO	N 13: DISPOSAL CONSIDERATIONS		
	Material is non hazardous.		
13.1 Waste treatment methods	Disposal of waste should be undertaken by a licensed waste		
15.1 Waste treatment methods	contractor in accordance with appropriate national and local		
	regulations		
SECTION 2	14: TRANSPORTATION INFORMATION		
14.1. UN number	The material is not classified as hazardous for transport (ADR, RID,		
	UN, IMO, IATA/ICAO)		
14.2. UN proper shipping name	The material is not classified as hazardous for transport (ADR, RID,		
14.2. On proper snipping name	UN, IMO, IATA/ICAO)		
14.2 Transport bazard alaas(as)	The material is not classified as hazardous for transport (ADR, RID,		
14.3. Transport hazard class(es)	UN, IMO, IATA/ICAO)		
44.4 Decking group	The material is not classified as hazardous for transport (ADR, RID,		
14.4. Packing group	UN, IMO, IATA/ICAO)		
14.5. Environmental hazards	The material is not classified as hazardous for transport (ADR, RID,		
14.5. Environmental hazards	UN, IMO, IATA/ICAO)		
	The material is not classified as hazardous for transport (ADR, RID,		
14.6. Special precautions for user	UN, IMO, IATA/ICAO)		
14.7. Transport in bulk according to			
Annex II of MARPOL73/78 and the	The material is not classified as hazardous for transport (ADR, RID,		
IBC Code	UN, IMO, IATA/ICAO)		
	N 15: REGULATORY INFORMATION		
	No labeling is required		
15.1. Safety, health and	No risk or safety phrases are required. Refer to European Directives		
environmental regulations/legislation	67/548/EEC, 99/45/EC, 91/155 EEC and 93/112/EC		
specific for the substance or mixture	Risk and Safety phases: intermediate Carbon Ferrochrome contains		
	chrome in the metallic (zero valent) state.		
	No chemical safety assessment has been carried out because the		
15.2 Chemical Safety Assessment	substance is not classified as hazardous		
SEC	TION 16: OTHER INFORMATION		
	uidelines: available through following ICDA web link		
(http://www.icdachromium.com/pdf/publica	v		

Additional advice on specific questions can be obtained from Elektrowerk Weisweiler GmbH – Germany.

Precautionary notes:

During melting, pickling and welding stages (strongly oxidizing conditions), water soluble hexavalent chromium and oxides of metals may be present in the effluent fumes. Suitable precautions should be taken to minimize exposure of personnel to such fumes. See section 10.3 above.

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Any moisture in the material should be regarded as an explosion hazard if it is to be used in high temperature environment.

Disclaimer

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It is the customer's responsibility to inspect and test our products in order to satisfy itself as to the suitability of the products for the customer's particular purpose. The customer is responsible for the appropriate, safe and legal use, processing and handling of our products.

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