\frown	SAFETY DATA	SHEET (SDS)	
	DUCTILE IF	RON/	
	WARE NOT CLEAR COURSES AND AND AND	ED GRAPHITE IRON	
© 2013 American Foundry Society	(CGI) CAST		
	SDS SC-000-		
Meets the Requirements of OSHA Standard 29 CFR 1910.1200 Hazar Communication and EPA Supplier Notification Requirements under	d		
313 of the Emergency Planning and Community Right-to-Know Act.			
	10/13		
SECTION 1—PRODUCT IDENTIFIC	ATION & COMPANY INFOR	MATION	
DUCTILE IRON and COMPACTED GRAPHIT			
OTHER DESIGNATIONS: ASTM (American Society for Testing & Materia Grades)	als) Specification No's., (ACI (Alloy C	Casting Institute) Alloy Designations—	
ASTM: A395, A536, A476, A874, A897, Compacted Gr	aphite Iron (CGI) A842		
PRODUCT IDENTIFICATION (Label Identifier)			
MANUFACTURER'S NAME McWane Ductile, Division of McWane, INC.	STREET ADDRESS 2266 South Sixth Stree	at	
EMERGENCY TELEPHONE NO.	MAILING ADDRESS	<i>τ</i> ι	
877-217-6372	2266 South Sixth Street		
TELEPHONE NO.	CITY, STATE, ZIP CODE, COUNTRY		
		octon, Ohio 43812-6001, USA	
FAX NO.	E-MAIL ADDRESS/WEBSITE		
RECOMMENDED USE OF CHEMICAL AND RESTRICTION	ONS ON USE		
Solid casting; no restrictions			
	RD IDENTIFICATION		
CLASSIFICATION Castings are metallic articles that do not present hazards	in their original form		
OTHER INFORMATION	in their original form.		
 Grinding castings that have not been cleaned or th amounts of dust containing crystalline silica. 	at contain embedded sand n	nay generate significant	
2. Fumes from hot processes may contain other com	pounds with different exposu	re limits. Dust or fumes	
generated by machining, grinding, welding or therr contaminants. Consult Sections 3 & 8 for further in		/ produce airborne	
SECTION 3—COMPOSITION/IN		INTO	
CHEMICAL NAME/COMMON NAME/SYNONYM	Wt %	CAS NUMBER	
Carbon (C)	3.04.3	7440-44-0	
Chromium (Cr)	0.02-0.13	7440-47-3	
Copper (Cu)	0.01-1.5	7440-50-8	
Iron (Fe)	87.7–95.1	7439-89-6	
Magnesium (Mg)	0.0001-0.10	7439-95-4	
Manganese (Mn)	<1.2	7439-96-5	
Molybdenum (Mo)	0.010.50	7439-98-7	
Nickel (Ni)	0.1–-2	7440-02-0	
Silicon (Si)			
	1.8–4	7440-21-3	

		and the state of the second state of the secon		
	the second s	SECTION 4—FIRST AI	D MEASURES	
EYE CONTACT:	Not applicable			
SKIN CONTACT:	No special requi	rements		
INGESTION:	Not applicable			
INHALATION	Not applicable			n , 200 th
	S	ECTION 5—FIREFIGHT	ING MEASURES	
FLAMMABLE PRO	OPERTIES:	Not applicable		
EXTINGUISHING	MEDIA:	Not applicable		
PROTECTION OF	FIREFIGHTERS:	Not applicable		
	SECTIO	ON 6—ACCIDENTAL R	ELEASE MEASURES	
Not applicable		· · · · · · · · · · · · · · · · · · ·		
		SECTION 7-HANDLIN	G & STORAGE	
RECOMMENDED S		·		
No special requirer				
PROCEDURES FOR	R HANDLING			
Proper hand and fo	pot protection is rec	commended.		
Proper hand and fo			S/PERSONAL PROTECTIC	DN
Proper hand and fo	SECTION 8—I		S/PERSONAL PROTECTIC	DN
ENGINEERING CO	SECTION 8-1 NTROLS			DN
ENGINEERING CO	SECTION 8—I NTROLS here are no health h	EXPOSURE CONTROL	solid form.	OSHA PEL
ENGINEERING CO! None Required. Th	SECTION 8-1 NTROLS	EXPOSURE CONTROL	solid form. ACGIH TLV mg/m ³	OSHA PEL mg/m ³
ENGINEERING COM None Required. Th Carbon (C)	SECTION 8—I NTROLS here are no health h	EXPOSURE CONTROL	solid form. ACGIH TLV mg/m ³ N/E	OSHA PEL
ENGINEERING CON None Required. Th Carbon (C) Chromium (Cr)	SECTION 8—I NTROLS here are no health h	EXPOSURE CONTROL	solid form. ACGIH TLV mg/m ³	OSHA PEL mg/m ³
ENGINEERING CON None Required. Th Carbon (C) Chromium (Cr) Copper (Cu)	SECTION 8—I NTROLS here are no health h	EXPOSURE CONTROL	solid form. ACGIH TLV mg/m ³ N/E	OSHA PEL mg/m ³ N/E
ENGINEERING CON None Required. Th Carbon (C) Chromium (Cr)	SECTION 8—I NTROLS here are no health h	EXPOSURE CONTROL	solid form. ACGIH TLV mg/m ³ N/E 0.5	OSHA PEL mg/m ³ N/E 1
ENGINEERING CON None Required. Th Carbon (C) Chromium (Cr) Copper (Cu)	SECTION 8—I NTROLS here are no health h SUBSTANC	EXPOSURE CONTROL	solid form. ACGIH TLV mg/m ³ N/E 0.5 1	OSHA PEL mg/m ³ N/E 1 1
ENGINEERING CON None Required. Th Carbon (C) Chromium (Cr) Copper (Cu) Iron (Fe)	SECTION 8—I NTROLS here are no health h SUBSTANC	EXPOSURE CONTROL	solid form. ACGIH TLV mg/m ³ N/E 0.5 1 N/E	OSHA PEL mg/m ³ N/E 1 1 N/E
ENGINEERING CON None Required. Th Carbon (C) Chromium (Cr) Copper (Cu) Iron (Fe) Magnesium (Mg) oxi	SECTION 8—1 NTROLS here are no health h SUBSTANC	EXPOSURE CONTROL	solid form. ACGIH TLV mg/m³ N/E 0.5 1 N/E 10 (I)	OSHA PEL mg/m ³ N/E 1 1 1 N/E 15
ENGINEERING CON None Required. Th Carbon (C) Chromium (Cr) Copper (Cu) Iron (Fe) Magnesium (Mg) oxi Manganese (Mn)	SECTION 8—1 NTROLS here are no health h SUBSTANC	EXPOSURE CONTROL	solid form. ACGIH TLV mg/m³ N/E 0.5 1 N/E 0.1 0.5 1 0.5 1 0.5 0.5 1 0.5 1 0.5 1 0.5 1 0.7 10 0.02 (R); 0.1 (I) 0.02 (R); 0.1 (I)	OSHA PEL mg/m ³ N/E 1 1 N/E 15 5 (C)
ENGINEERING CON None Required. Th Carbon (C) Chromium (Cr) Copper (Cu) Iron (Fe) Magnesium (Mg) oxi Manganese (Mn) Molybdenum (Mo) in	SECTION 8—1 NTROLS here are no health h SUBSTANC	EXPOSURE CONTROL	solid form. ACGIH TLV mg/m ³ N/E 0.5 1 N/E 10 (I) 0.02 (R); 0.1 (I) 10 (I); 3 (R)	OSHA PEL mg/m³ N/E 1 1 1 5 (C) 15
ENGINEERING CON None Required. Th Carbon (C) Chromium (Cr) Copper (Cu) Iron (Fe) Magnesium (Mg) oxi Manganese (Mn) Molybdenum (Mo) in Nickel (Ni)	SECTION 8—1 NTROLS here are no health h SUBSTANC	EXPOSURE CONTROL	solid form. ACGIH TLV mg/m ³ N/E 0.5 1 N/E 10 (I) 0.02 (R); 0.1 (I) 10 (I); 3 (R)	OSHA PEL mg/m³ N/E 1 1 1 5 (C) 15
ENGINEERING CON None Required. Th Carbon (C) Chromium (Cr) Copper (Cu) Iron (Fe) Magnesium (Mg) oxi Manganese (Mn) Molybdenum (Mo) in Nickel (Ni) Silicon (Si)	SECTION 8—1 NTROLS here are no health h SUBSTANC	EXPOSURE CONTROL	solid form. ACGIH TLV mg/m ³ N/E 0.5 1 N/E 10 (I) 0.02 (R); 0.1 (I) 10 (I); 3 (R) 1.5 (I)	OSHA PEL mg/m³ N/E 1 1 1 5 (C) 15 15 15 15 15 15 15 15 15 15

SUPPLEMENTAL INFORMATION

Grinding castings that have not been cleaned or that contain embedded sand may generate significant amounts of dust containing crystalline silica.

Fumes from hot processes may contain other compounds with different exposure limits than those listed above. Dust or fumes generated by machining, grinding, welding or thermal cutting of the casting may produce airborne contaminants. Exposure limits for the most common contaminants are offered as reference. Please consult a competent person for guidance on exposure assessment and controls.

In particular, Hexavalent Chromium is an OSHA Expanded Health Standard; refer to OSHA 29 CFR 1910.1026- Chromium (VI) for complete requirements.

OUDOTALIOE	ACGIH TLV	OSHA PEL
SUBSTANCE	mg/m ³	mg/m ³
Chromium Compounds (as Cr)		
Chromium (II) inorganic compounds	N/E	0.5
Chromium (III) inorganic compounds	0.5	0.5
Chromium (VI) inorganic compounds, certain water in	nsoluble 0.01	0.005
Chromium (VI) inorganic compounds, water soluble	0.05	0.005
Chromium (VI) all forms and compounds	N/E	0.005
Copper Compounds (as Cu)		
Fume, as Cu	0.2	0.1
Dusts and mists, as Cu	1	1
Iron Compounds		· · · · · · · · · · · · · · · · · · ·
Iron oxide (Fe ₂ O ₃) fume	N/E	10
Iron oxide (Fe_2O_3)	5 (R)	N/E
Nickel Compounds (as Ni)		······································
Insoluble, inorganic compounds	0.2(I)	1
Soluble, inorganic compounds	0.1(I)	1
Nickel oxide	0.2(1)	1
Tin compounds (as Sn)		
Tin Oxide & inorganic compounds, except SnH₄	2	N/E
Inorganic compounds, except oxides, as Sn	N/E	2
Tin Oxides, as Sn	2.0	N/E
I = Inhalable fraction B = Bespirable fraction		
R =Respirable fractionTLV =Threshold Limit Value/American ConferencePEL =Permissible Exposure Limit / OSHAmg/m³ =milligrams per cubic meterPERSONAL PROTECTION	ce of Industrial Hygienists (ACGIH)	
R =Respirable fractionTLV =Threshold Limit Value/American ConferencePEL =Permissible Exposure Limit / OSHAmg/m³ =milligrams per cubic meter	ce of Industrial Hygienists (ACGIH)	
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R = Respirable fraction TLV = Threshold Limit Value/American Conference PEL = Permissible Exposure Limit / OSHA mg/m³ = milligrams per cubic meter PERSONAL PROTECTION Proper hand and foot protection is recommended. SECTION 9—PHYSIC/ APPEARANCE /PHYSICAL STATE Solid, silver gray in color ODOR/ODOR THRESHOLD None MELTING POINT/FREEZING POINT Approximately 2350°F (1300°C) BOILING POINT 5000°F (2750°C) for iron FLASH POINT Not applicable for solid castings	AL & CHEMICAL PROPERTIES VAPOR DENSITY Not applicable SPECIFIC GRAVITY (relative de 7.85 g/cm ³ for iron VAPOR PRESSURE Not applicable EVAPOR ATION RATE Not applicable	
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DECOMPOSITION TEMPERATURE		PARTITION COEFFICIENT		
Not applicable		Not applicable		
SECTION 10—STABILITY & REACTIVITY				
CHEMICAL STABILITY	<u> </u>			
Stable				
CONDITIONS TO AVOID				
None				
REACTIVITY		INCOMPA	TIBLE M	ATERIALS
Not reactive		None		
HAZARDOUS DECOMPOSITION PRODUCTS POSSIBILITY OF HAZARDOUS REACTIONS			AZARDOUS REACTIONS	
None		Not appl	icable	
SECTION 11-1	roxicol	LOGICAL	INFORM	ATION
POTENTIAL HEALTH EFFECTS				
EYE CONTACT: None				
SKIN: None				
INGESTION: None				
INHALATION: None				
Carcinogen	Classifi	cation of	Ingredie	nts
INGREDIENT	OSHA	NTP	IARC	TARGET ORGAN
Nickel (metal)	NL	R	2B	Lung, Nose
NTP—National Toxicology ProgramK = Known to be a Human CarcinogenR = Reasonably Anticipated to be a Human CIARC—International Agency for Research on C1 = Carcinogen to Humans2A = Probably Carcinogenic to Humans2B = Possibly Carcinogenic to Humans3 = Unclassifiable as to Carcinogenicity in Hu4 = Probably not Carcinogenic to HumansOther	ancer	en (RAHC)	
NL = Not Listed				
SECTION 12-	-ECOLC	OGICAL IN	IFORMA	ΓΙΟΝ
ECOTOXICITY		PERSIST		ND DEGRADABILITY
Not applicable		Not applicable		
BIOACCUMULATION POTENTIAL		MOBILITY IN SOIL		
Not applicable Not applicable				
OTHER ADVERSE EFFECTS				
Not applicable				
SECTION 13– Recover or recycle if possible. Dispose of accord machining, welding, etc. may be classified as a l	ding to fe hazardou	ederal, stat us waste. (te and loc Consult fe	al regulations. Dust collected from deral, state and local regulations.
SECTION 14-				
US DEPARTMENT OF TRANSPORTATION				SPORTATION OF DANGEROUS
(DOT)-HMR (Hazardous Materials Registration) GOODS (TDG) Not Regulated Not regulated				
UN SHIPPING NAME UN NUMBER				
Not regulated		Not regu		·····

Not regulated INVIRONMENTAL HAZARDS None	Not regulated
Nono	LABEL(S) REQUIRED?
	No
RANSPORT IN BULK	SPECIAL SHIPPING INFORMATION
Not applicable	Not applicable
SECTION 15—REG	ULATORY INFORMATION
S-OSHA (Hazard Communication Standard)	
Reference 29 CFR 1910.1200 and 1910.1000. A finis Communication Standard 29CFR 1910.1200 (c). Dus welding of the casting may produce airborne contami manganese, nickel, tin, silcon and silica. For hexaval	
S-EPA (Toxic Substances Control Act-TSCA)	
All components of these products are on the TSCA ir IS-EPA (SARA Title III)	ventory list or are excluded from listing.
	, Manganese and Nickel , may be subject to reporting under and Reauthorization Act of 1986 and 40 CFR Part 72.
ANADA-WHMIS (Workplace Hazardous Materials Ir	iformation System)
This SDS has been prepared according to the hazard SDS contains the information required by the CPR.	d criteria of the Controlled Product Regulations (CPR) and the
ANADA DSL (Domestic Substances List) Inventory	/ Status
All components of these products are on the DSL Inv	entory.
EPA (Canadian Environmental Protection Act)	
Chromium and Nickel are on the CEPA Priorities Sub	ostances Lists
INECS No. (European Inventory of Existing Comme	ercial Chemical Substances)
All components of these products are on the EINECS	ilst.
oHS (Restriction of Certain Hazardous Substances) Compliance
Castings comply with RoHS	
ALIFORNIA PROPOSITION 65 Compliance	
WARNING: This product contains or produces chemic birth defects (or other reproductive harm). (California	icals known to the State of California to cause cancer and Health & Safety Code 25248.5 et seq.)
S STATE REGULATORY INFORMATION	
Some of the components listed in Section 3 may be o	covered under specific state regulations.
SECTION 16 - 0	OTHER INFORMATION
DS SHEET PREPARED BY	DATE
American Foundry Society, Inc.	10/13
Occupational Safety & Health Committee (10-Q)	
OTE	al nagatit na

procedures are believed to be generally applicable. However, each user should review the recommendations in specific context of the intended use and determine if they are appropriate.

PRODUCT IDENTIFIER

SC-000-042 Rev. 12

DUCTILE IRON/COMPACTED GRAPHITE IRON (CGI) CASTINGS

SUPPLIER IDENTIFICATION	HAZARD PICTOGRAMS
Company Name McWane Ductile	None*
Street Address 2266 South Sixth Street	SIGNAL WORD
Mailing Address 2266 South Sixth Street	None*
City Coshocton State OH	
Zip/Postal Code <u>438126001</u> Country USA	
Emergency Phone Number 877-217-6372	
Other Info_Coatings will have their own SDSs_	
PRECAUTIONARY STATEMENTS	HAZARD STATEMENTS
None*	None*

*Castings do not present hazards in their original form.

OTHER INFORMATION

- 1. Grinding castings that have not been cleaned or that contain embedded sand may generate significant amounts of dust containing crystalline silica.
- 2. Fumes from hot processes may contain other compounds with different exposure limits. Dust or fumes generated by machining, grinding, welding or thermal cutting of the casting may produce airborne contaminants. Consult Sections 3 & 8 of the SDS for further information.