

COMPANY INFORMATION

COMPANY NAME: ORTHO SPECIALTIES
COMPANY ADDRESS: 3820 OHIO AVE - SUITE 15
 ST. CHARLES, IL 60174
COMPANY PHONE: 630-443-0225
COMPANY FAX: 630-443-0224
COMPANY WEB ADDRESS: www.orthospecialties.com

GAS ATOMIZED METAL POWDER

DOCUMENT NUMBER:	SDS61
REVISION DATE:	09/26/2014
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SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE

1.1 Product Identifier: Gas atomized metal powder

SECTION 2: HAZARDS IDENTIFICATION

HARMFUL Xn

R20 Harmful by inhalation.
 R42/43 May cause sensitisation by inhalation and skin contact.
 Be aware of potential for dust explosion

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

A preparation containing the following hazardous ingredients

Ingredient	Conc. (% w/w)	CAS No.	EINESC No.	Hazard Symbol	R Phrase No.
Iron	60-70%	7439-89-6	231-096-4	XN	R20
Chromium	15-30%	7440-47-3	231-157-5	XN	R20
Molybdenum	0-10%	7439-98-7	231-107-2	XN	R20
Copper	0-10%	7440-50-8	231-159-6	XN	R20
Cobalt	0-10%	7440-48-4	231-158-0	XN XN XN	R42/43 R20 R53 R20
Manganese	0-10%	7439-96-5	231-105-1	XN XN	R48/20 R20
Silicon	0-10%	7440-21-3	231-130-8		

SECTION 4. FIRST-AID MEASURES

Skin contact: Wash off thoroughly with soap and water. Remove contaminated clothing and wash before re-use. In severe cases obtain medical attention.
Eye contact: Irrigate thoroughly with water for at least 10 minutes. OBTAIN MEDICAL ATTENTION
Inhalation: Remove from exposure, rest and keep warm. In severe cases, or if exposure has been great, OBTAIN MEDICAL ATTENTION
Ingestion: Wash out mouth thoroughly with water. Obtain medical attention

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SECTION 5. FIRE-FIGHTING MEASURES

Small Fires: Dry powder.
 Large Fires: Dry powder.
 Special Risks: Not readily combustible
 Products of Combustion: Hazardous gases

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear suitable protective clothing and equipment.
 Environmental Precautions: Take precautions to ensure product does not contaminate ground or enter the drainage system.

Clean Up Methods

Small spillage: Do not allow the product to enter drains. Do not flush into surface water. Do not allow the product to contaminate sub-soil. Prevent further spillage if safe to do so. Mix solids with wet sand or other damp inert absorbent, and transfer carefully to sealed container. Arrange for removal by disposal company. Wash site of spillage thoroughly with water and detergent.
 Large spillage: Solids should be carefully transferred to salvage containers. Any residues be treated as small spillages.

SECTION 7. HANDLING AND STORAGE

Handling
 Avoid contact with skin and eyes. Do not breathe dust. Work using a suitable extraction/ventilation system. Wash hands and face thoroughly after working with material. Contaminated clothing should be removed and washed before re-use.
 Use appropriate containment to avoid environmental hazard.
 Storage: Store in a cool dry place

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SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

CAS No.	Component	OEL 8hr Limit		OEL 15min Limit	
		ppm	mg/m3	ppm	mg/m3
7439-89-6	Iron		Iron Inhalable Dust	-	10.0
			Iron Respirable Dust	-	4.0
7440-47-3	Chromium	-	0.5	-	-
7439-98-7	Molybdenum	-	10.0	-	20.0
7440-50-8	Copper		Copper	-	1.0
7440-48-4	Cobalt	-	0.1	-	-
7439-96-5	Manganese	-	0.5	-	-
7440-21-3	Silicon		Silicon Inhalable Dust	-	10.0
			Silicon Respirable Dust	-	4.0

Personal Protection Equipment: As appropriate to the situation and quantity handled. Engineering methods to control or prevent exposure are preferred. Methods could include process enclosure or mechanical ventilation.

Environmental Exposure controls: Use appropriate containment. Do not allow product to enter water supplies, wastewater or soil.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Colour: Grey
Odour: Odourless
Flammability: Non flammable, but could form explosive dust cloud
Water Solubility: Insoluble in water
Relative Density: 7.83
Melting Point: -
Physical State: Powder

SECTION 10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.
Reactivity: Incompatible with naked flame, oxidising agents and moisture

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SECTION 11. TOXICOLOGICAL INFORMATION

General
 Repeated or prolonged exposure: Avoid prolonged or repeated exposure. May cause allergic reactions in susceptible people. May cause dermatitis. Repeated or prolonged exposure may cause asthma and eczema.

Further data

SECTION 12. ECOLOGICAL INFORMATION

General
 No environmental hazard is anticipated provided that the material is handled and disposed of with due care and attention.

Further data

SECTION 13. DISPOSAL CONSIDERATIONS

Chemical residues are generally classified as special waste and as such, are covered by regulations which vary according to location. Contact your local waste disposal authority for advice or pass to a chemical company.

SECTION 14. TRANSPORT INFORMATION

Not regulated for transport

SECTION 15. REGULATORY INFORMATION



HARMFUL Xn

R Phrase No	
R20	Harmful by inhalation.
R42/43	May cause sensitisation by inhalation and skin contact.

S Phrase No	
S22	Do not breathe dust.

German Water Classification (Verwaltungsvorschrift wassergefährdende Stoffe; VwVwS) WGK 2 Users should ensure that they comply with any relevant local, provincial or national legislation. In all cases the use of this material should be risk assessed as appropriate.

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SECTION 16. OTHER INFORMATION

CAUTION: FOR MANUFACTURING, PROCESSING OR REPACKING BY TRAINED PERSONNEL

The information contained herein is based on current knowledge and experience; no responsibility is accepted that the information is sufficient and correct in all cases. Users should consider this data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to ensure proper use and disposal of these materials and the safety and health of employees and customers and the protection of the environment.