

SAFETY DATA SHEET

Version: 2.0 Date: 3rd June 2024, First Issue Date: 24th June 2021

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830



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

1.1 Product identifier	
Product name	IN718 ≥15µm Metal Powder GMP 718
1.2 Relevant identified uses of the substance or mixture and uses advised against	
Identified Use(s)	Additive manufacturing, hot isostatic pressing, thermal spray, metal injection moulding, binder jetting.
Uses advised against	Any other use.
1.3 Details of the supplier of the safety data sheet	
Company Identification	Globus Metal Powders Ltd. Materials Processing Institute, Eston Road, Middlesbrough, TS6 6US
Telephone	+44(0)164 238 2000
E-mail (competent person)	gmp@globusmetalpowders.com
1.4 Emergency telephone number	
Emergency Phone No.	999 / 911 or local emergency number
Languages spoken	Local language 24/7

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture	
2.1.1 Regulation (EC) No. 1272/2008 (CLP)	Skin Sens. 1; H317 Resp Sens. 1; H334 Carc. 1B; H350 Repr. 1B; H360F STOT RE 1; H372 Aquatic Chronic 3; H412
2.2 Label elements	According to Regulation (EC) No. 1272/2008 (CLP)
Product name	IN718 ≥15µm Metal Powder
Contains:	Nickel and Cobalt
Hazard Pictogram(s)	
Signal Word(s)	DANGER
Hazard Statement(s)	H317: May cause an allergic skin reaction. H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled. H350: May cause cancer. H360F: May damage fertility. H372: Causes damage to organs through prolonged or repeated exposure. H412: Harmful to aquatic life with long lasting effects.
Precautionary Statement(s)	P201: Obtain special instructions before use.

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P280: Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P302+P352: IF ON SKIN: Wash with plenty of water.
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308+P313: IF exposed or concerned: Get medical advice/attention.
P342+P311: If experiencing respiratory symptoms: Call a doctor.

Supplemental information

Not applicable

2.3 Other hazards

Handling of this material may generate a dust which can cause mechanical irritation of the eyes, skin nose and throat.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

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

Chemical identity of the substance	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard classification
Nickel	< 60	7440-02-0	231-111-4	Not yet assigned in the supply chain	Skin Sens. 1; H317 Carc. 2; H351 STOT RE 1; H372 Aquatic Chronic 3; H412
Cobalt	< 1	7440-48-4	231-158-0	Not yet assigned in the supply chain	Skin Sens. 1; H317 Resp Sens. 1; H334 Muta. 2; H341 Carc. 1B; H350 Repr. 1B; H360F Aquatic Chronic 4; H413
Manganese	< 2	7439-96-5	231-105-1	Not yet assigned in the supply chain	Aquatic Chronic 2; H411

For full text of H phrases see section 16.

SECTION 4: FIRST AID MEASURES



4.1 Description of first aid measures

Self-protection of the first aider

Obtain special instructions before use. No action should be taken involving personal risk. Use personal protective equipment as required. Wear appropriate personal protective equipment, avoid direct contact. Ensure adequate ventilation. Do not breathe dust. Avoid contact with skin and eyes.

Inhalation

IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention immediately.

Skin contact

IF ON SKIN: Gently wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Remove contaminated clothing and wash clothing before reuse.

Eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation develops and persists, get medical attention.

Ingestion

IF SWALLOWED: Rinse mouth. Give plenty of water to drink. Do NOT induce vomiting. Seek medical treatment.

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- 4.2 Most important symptoms and effects, both acute and delayed** May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause cancer. May damage fertility. Causes damage to organs through prolonged or repeated exposure.
- 4.3 Indication of any immediate medical attention and special treatment needed** Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

- 5.1 Extinguishing media**
Suitable extinguishing media As appropriate for surrounding fire. Use CO₂, dry chemical, or foam.
Unsuitable extinguishing media Do not use water jet. Direct water jet may spread the fire.
- 5.2 Special hazards arising from the substance or mixture** Not flammable. Combustion products: Carbon monoxide, Carbon dioxide and Nickel carbonyl gas.
- 5.3 Advice for firefighters** Fight fire with normal precautions from a reasonable distance. Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Keep containers cool by spraying with water if exposed to fire. Avoid run off to waterways and sewers.

SECTION 6: ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures** Caution - spillages may be slippery. Ensure operatives are trained to minimise exposures. No action should be taken involving personal risk. Wear appropriate personal protective equipment, avoid direct contact. Avoid breathing dust. Ensure adequate ventilation. Remove contaminated clothing and wash all affected areas with plenty of water. Avoid dust generation.
- 6.2 Environmental precautions** Avoid release to the environment. Do not allow to enter drains, sewers or water courses.
- 6.3 Methods and material for containment and cleaning up** Provided it is safe to do so, isolate the source of the leak. Sweep spilled substances into containers if appropriate moisten first to prevent dusting. Use non-sparking equipment when picking up flammable spill. Collect mechanically and dispose of according to Section 13. Use non-sparking tools. Ventilate the area and wash spill site after material pick-up is complete.
- 6.4 Reference to other sections** See Section: 8,13.

SECTION 7: HANDLING AND STORAGE

- 7.1 Precautions for safe handling** When using do not eat or drink. Provide adequate ventilation when using the material and follow the principles of good occupational hygiene to control personal exposures. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not eat, drink or smoke when using this product. Remove contaminated clothing and wash clothing before reuse.
- 7.2 Conditions for safe storage, including any incompatibilities**
Keep only in original packaging. Keep in a well ventilated place. Keep container closed.
Storage temperature Store in a cool/low-temperature, well-ventilated (dry) place away from heat and ignition sources.
Incompatible materials Keep away from acids and strong oxidising agents.
- 7.3 Specific end use(s)** See Section: 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Control parameters**
- 8.1.1 Occupational exposure limits** The UK HSE (EH40) recommends the following limits for dusts: 10 mg/m³ (8hr TWA) total inhalable dust; 4 mg/m³ (8hr TWA) total respirable dust.

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m ³)	STEL (ppm)	STEL (mg/m ³)	Note
Nickel	7440-02-0	-	0.5	-	-	WEL

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Cobalt	7440-48-4	-	0.1	-	-	WEL, Carc
Aluminium	7429-90-5	-	10	-	-	WEL
		-	4	-	-	Inhalable fraction Respirable fraction
Manganese	7439-96-5	-	0.2	-	-	WEL
		-	0.05	-	-	Inhalable fraction Respirable fraction
Silicon	7440-21-3	-	10	-	-	WEL
		-	4	-	-	Inhalable fraction Respirable fraction
Copper	7440-50-8	-	0.2	-	-	WEL

Source: WEL: Workplace Exposure Limit (UK HSE EH40)

Note: Chemicals listed in Section 8 but not in Section 3 are not hazardous and do not impact the final mixture classification.

Carc. - Capable of causing cancer and/or heritable genetic damage.

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 Provide adequate ventilation, including appropriate local extraction if dusts, fumes or vapours are likely to be evolved. Do not breathe dust. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).

8.2.2 Individual protection measures, such as personal protective equipment Obtain special instructions before use. Keep good industrial hygiene. Wear appropriate personal protective equipment, avoid direct contact. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke at the work place. Do not breathe dust.

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Eye/ face protection



Wear eye protection with side protection (EN166). Eyewash bottles should be available.

Skin protection



Hand protection: Wear impervious gloves (EN374). Gloves should be changed regularly to avoid permeation problems. Breakthrough time of the glove material: refer to the information provided by the gloves' producer. Protective index 6, corresponding > 480 minutes of permeation time according to EN 374.

Body protection: Wear dust-resistant protective clothing.

Respiratory protection



Not normally required. Wear suitable respiratory protective equipment if processing involves working in areas where dusts or vapours are likely to be evolved. In case of inadequate ventilation wear respiratory protection. Recommended: EN143 Type A-P2.

Thermal hazards

Not applicable.

8.2.3 Environmental exposure controls Avoid release to the environment.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Powder
Odour	Powder
Odour threshold	Odourless.
pH	Not applicable.
Melting point/freezing point	No information available.
Initial boiling point and boiling range	1210 - 1344°C
Flash point	No information available.
Evaporation rate	No information available.
Flammability (solid, gas)	No information available.
Upper/lower flammability or explosive limits	Does not support combustion. (BS EN 14034) Layer ignition temperature - >400°C (BS EN 50281-2-1)
Vapour pressure	No information available.
Vapour density	No information available.
Relative density	8.22 g/cm ³
Solubility(ies)	No information available.
Partition coefficient: n-octanol/water	No information available.
Auto-ignition temperature	No information available.
Decomposition temperature	No information available.
Viscosity	No information available.
Explosive properties	May form combustible dust concentrations in air.
Oxidising properties	Not oxidising.

9.2 Other information

Particle size	≥15 µm
Loss on Drying	No information available.
Moisture Content	0.0 % w/w

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity	Stable under normal conditions.
10.2 Chemical stability	Stable under normal conditions.
10.3 Possibility of hazardous reactions	Hazardous polymerisation will not occur.
10.4 Conditions to avoid	Hydrogen gas can be liberated when nickel or its alloys react with acids. In reduced atmospheres nickel can react with carbon monoxide to form Ni(CO) ₄ , which is an extremely toxic gas.
10.5 Incompatible materials	Keep away from: acids and strong oxidising agents.
10.6 Hazardous decomposition products	Combustion products: Carbon monoxide, Carbon dioxide and Nickel carbonyl gas.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity - Ingestion	Mixture: Based upon the available data, the classification criteria are not met. Calculated acute toxicity estimate (ATE) >2,000 mg/kg.
Acute Toxicity - Inhalation	Mixture: Based upon the available data, the classification criteria are not met. Calculated acute toxicity estimate (ATE) > 5 mg/L (Dust)
Acute Toxicity - Skin contact	Mixture: Based upon the available data, the classification criteria are not met. Calculated acute toxicity estimate (ATE) >2,000 mg/kg.
Skin corrosion/irritation	Mixture: Based upon the available data, the classification criteria are not met.
Serious eye damage/irritation	Mixture: Based upon the available data, the classification criteria are not met.
Respiratory or skin sensitisation	Mixture: Skin Sens. 1; H317: May cause an allergic skin reaction. Resp Sens. 1; H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Nickel	Skin Sens. 1; H317: May cause an allergic skin reaction.

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		EU Harmonised Classification
	Cobalt	Skin Sens. 1; H317: May cause an allergic skin reaction.
		EU Harmonised Classification
		Sensitisation (Guinea pig) - Positive (Liden, 1994)
		Resp Sens. 1; H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
		EU Harmonised Classification
		Mixture: Muta 2; H341: Suspected of causing genetic defects.
	Cobalt	Muta 2; H341: Suspected of causing genetic defects.
		EU Harmonised Classification
		Mixture: Carc. 1B; H350: May cause cancer.
	Cobalt	Carc. 1B; H350: May cause cancer.
		EU Harmonised Classification
		BMCL10: 0.414 mg/m ³ (mouse) (Behl, M. et al. 2015)
		Mixture: Repr. 1; H360F: May damage fertility.
	Cobalt	Repr. 1; H360F: May damage fertility.
		Reproductive - NOEL:30 mg/kg bw/day (rat) (OECD 422)
		Developmental toxicity - NOEL: 100 mg/kg bw/day (rat) (OECD 414)
		Mixture: Based upon the available data, the classification criteria are not met.
		Mixture: STOT RE 1; H372: Causes damage to organs through prolonged or repeated exposure.
	Nickel	STOT RE 1; H372: Causes damage to organs through prolonged or repeated exposure.
		EU Harmonised Classification
		Oral: NOAEL – 2.2 mg/kg/bw day (rat) (Unnamed publication, 2007)
		Inhalation: LOAEC – 0.1mg/m ³ (rat) (OECD 451)
		Dermal: No data
		Mixture: Based upon the available data, the classification criteria are not met.
	Aspiration hazard	
11.2	Other information	None known

SECTION 12: ECOLOGICAL INFORMATION

12.1	Toxicity	Mixture: Aquatic Chronic 3; H412: Harmful to aquatic life with long lasting effects. Estimated LC50 (Mixture): >10 - ≤ 100 mg/l
	Nickel	Aquatic Chronic 3; H412: Harmful to aquatic life with long lasting effects.
		EU Harmonised Classification
		NOEC: 0.057 ug/L (Birge et al. 1984)
	Manganese	Aquatic Chronic 2; H411: Toxic to aquatic life with long lasting effects. LC50: 0.17-15.61 mg/l (28 days) (U. S. National Library of Medicine, 2018)
12.2	Persistence and degradability	No data for the mixture as a whole.
	Nickel	Not applicable for inorganic substances.
	Cobalt	Not applicable for inorganic substances.
	Manganese	Not applicable for inorganic substances.
12.3	Bioaccumulative potential	No data for the mixture as a whole.
	Nickel	Low bioaccumulation potential. BCF: 45 (Alikhan et al. 1989)
	Cobalt	Low bioaccumulation potential. BCF: 23 (Warnau et al. 1999)
	Manganese	Low bioaccumulation potential. BCF: 19 (SOREN NORDAHL HANSEN, et.al. 1995)
12.4	Mobility in soil	No data for the mixture as a whole.
	Nickel	The product is predicted to have high mobility in soil. Log Kp: 4.51 (Elbaz-Poulichet et al. 1996)
	Cobalt	The product is predicted to have high mobility in soil. BMCL10: 0.414 mg/m ³ (Behl, M. et al. 2015)
	Manganese	The product is predicted to have low mobility in soil. Kd: ~994 (OECD 106)

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12.5	Results of PBT and vPvB assessment	Not classified as PBT or vPvB.
12.6	Other adverse effects	None known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1	Waste treatment methods	Do not allow to enter drains, sewers or watercourses. Dispose of this material and its container as hazardous waste. Disposal should be in accordance with local, state or national legislation.
13.2	Additional information	Avoid release to the environment.

SECTION 14: TRANSPORT INFORMATION

Not classified according to the United Nations 'Recommendations on the Transport of Dangerous Goods'.

	ADR/RID	IMDG	IATA/ICAO
14.1	UN number	None assigned.	None assigned.
14.2	UN proper shipping name	None assigned.	None assigned.
14.3	Transport hazard class(es)	None assigned.	None assigned.
14.4	Packing group	None assigned.	None assigned.
14.5	Environmental hazards	Not classified	Not classified
		Not classified as a Marine Pollutant.	
14.6	Special precautions for user	See Section: 2	
14.7	Transport in bulk according to Annex II of Marpol and the IBC Code	No information available.	No information available. No information available.

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 Not restricted
15.1.2	National regulations	Germany Water hazard class: 2
15.2	Chemical Safety Assessment	A REACH chemical safety assessment has not been carried out. Exposure scenarios for substances in this preparation are not available.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: Not applicable – V1.0

References:

EU Harmonised Classification and ECHA registration dossier for Nickel (CAS No. 7440-02-0) and Cobalt (CAS No. 7440-48-4).
ECHA registration dossier for Manganese (CAS No. 7439-96-5).

Literature references

1. Liden, C.; Wahlberg, J.E. 1994. Cross-reactivity to metal compounds studied in guinea pigs induced with chromate or cobalt. Acta Derm. Venereol. 74, 341-343.
2. Behl, M. et al. 2015. Comparative toxicity and carcinogenicity of soluble and insoluble cobalt compounds. Toxicology 333, 195-205.
3. Birge, W.J., J.A. Black, J.F. Hobson, A.G. Westerman, and T.M. Short. 1984. Water Resources Research Institute. Kentucky University, Lexington, KY. Research Report No. 151.
4. U. S. National Library of Medicine. 2018. To determine long- term toxicity of test chemical on Oncorhynchus mykiss. HSDB (Hazardous Substances Data Bank); US national Library of Medicine reviewed by SRC.
5. Alikhan, M.A., Zia, S. 1989. Nickel uptake and regulation in a copper-tolerant Decapod, Cambarus (Fabricius) (Decapoda, Crustacea). Bull. Environ. Contam. Toxicol: 42, 94-102.
6. Warnau, M., S.W. Fowler, and J.L. Teyssie. 1999. Biokinetics of radiocobalt in the asteroid Asterias rubens (Echinodermata): sea water and food exposures. Marine Pollution Bulletin. 39(1-12):159-164.
7. SOREN NORDAHL HANSEN, et.al. 1995. Marine Pollution Bulletin, 1995.

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8. Elbaz-Poulichet, F., Garnier, J.M., Guan, D.M., Martin, J.M., Thomas, A.J. 1996. The conservative behaviour of Trace metals (Cd, Cu, Ni, Pb) and As in the surface plume of stratified estuaries: example of the Rhone River (France). Estuarine, Coastal and Shelf Science: 42, 289-310.

EU Classification: This Safety Data Sheet was prepared in accordance with EC Regulation (EC) 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830.

Classification of the substance or mixture According to Regulation (EC) No. 1272/2008 (CLP)	Classification procedure
Skin Sens. 1; H317	Threshold Calculation
Resp Sens. 1; H334	Threshold Calculation
Carc. 1B; H350	Threshold Calculation
Repr. 1B; H360F	Threshold Calculation
STOT RE 1; H372	Threshold Calculation
Aquatic Chronic 3; H412	Summation Calculation

LEGEND

ADR	ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
BCF	Bioconcentration factor
BMCL10	Benchmark concentration
CAS	Chemical Abstracts Service
DNEL	Derived No Effect Level
EC	European Community
EN	European Standard
EU	European Union
IATA	International Air Transport Association
ICAO/IATA	ICAO: International Civil Aviation Organization / IATA: International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Lethal concentration 50
LD50	Lethal dose 50
LOAEC	Lowest observed adverse effect concentration
LTEL	Long Term Exposure Limit
NOEC	No Observed Effect Concentration
NOAEL	No Observed Adverse Effect Level
OECD	Organisation for Economic Cooperation and Development
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
STEL	Short Term Exposure Limit
TWA	Time Weighted Average
UN	United Nations
vPvB	Very Persistent and very Bioaccumulative
WGK	Wassergefährdungsklasse (Germany) / Water hazard class

Hazard classification / Classification code:

Skin Sens. 1; Skin Sensitisation, Category 1
Resp. Sens. 1; Respiratory sensitization, Category 1

Muta. 2; Germ cell mutagenicity, Category 2
Carc. 1B; Carcinogenicity, Category 1B
Carc. 2; Carcinogenicity, Category 2
Repr. 1B; Reproductive toxicity, Category 1B
STOT RE 1; Specific target organ toxicity — repeated exposure, Category 1
Aquatic Chronic 2; Hazardous to the aquatic environment, Chronic, Category 2
Aquatic Chronic 3; Hazardous to the aquatic environment, Chronic, Category 3

Hazard Statement(s)

H317: May cause an allergic skin reaction.
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H341: Suspected of causing genetic defects.
H350: May cause cancer.
H351: Suspected of causing cancer.
H360F: May damage fertility.
H372: Causes damage to organs through prolonged or repeated exposure.
H411: Toxic to aquatic life with long lasting effects.
H412: Harmful to aquatic life with long lasting effects.

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Training advice: Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required.

Disclaimers

Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose. Globus Metal Powders Ltd. gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law. Globus Metal Powders Ltd. accepts no liability for loss or damage (other than that arising from death or personal injury caused by defective product, if proved), resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.

Annex to the extended Safety Data Sheet (eSDS)

Exposure Scenarios are not applicable