

SAFETY DATA SHEET

Version: 3.0 Revision date: 3rd June 2024, Date of First Issue: 20th April 2022

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2020/878



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

1.1 Product identifier	
Product name	IN718 Metal Powder <15 µm GMP 718
Unique Formula Identifier (UFI)	Not assigned
Nanoform	Not assigned
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 / 111 (or local emergency number)
Languages spoken	English (or local language)

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 <15 µm Metal Powder
Contains:	Nickel and Cobalt
Hazard Pictogram(s)	The hazard pictograms consist of two red diamond-shaped symbols. The first symbol shows a black silhouette of a human figure with a white starburst on the chest, indicating a health hazard. The second symbol shows a black exclamation mark, indicating a general warning.
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.

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Precautionary Statement(s)

P201: Obtain special instructions before use.

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

May form combustible dust concentrations in air. 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	25 - < 60	7440-02-0	231-111-4	01-2119438727-29-0036	Skin Sens. 1; H317 Carc. 2; H351 STOT RE 1; H372 Aquatic Chronic 3; H412
Cobalt	0.1 - ≤ 1	7440-48-4	231-158-0	01-2119517392-44-0002	Acute Tox. 4; H302 Eye Irrit. 2; H319 Skin Sens. 1; H317 Resp Sens. 1; H334 Muta. 2; H341 Carc. 1B; H350 Repr. 1B; H360F Aquatic Chronic 4; H413
Manganese	0.1 - < 2	7439-96-5	231-105-1	01-2119449803-34-0039	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.

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Ingestion	IF SWALLOWED: Rinse mouth. Give plenty of water to drink. Do NOT induce vomiting. Seek medical treatment.
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 Unsuitable extinguishing media	As appropriate for surrounding fire. Use CO ₂ , dry chemical, or foam. Do not use water jet. Direct water jet may spread the fire.
5.2 Special hazards arising from the substance or mixture	Explosion: May form combustible dust concentrations in air. Avoid dust generation. Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. 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. Do not breathe dust. Ensure adequate ventilation. Remove contaminated clothing and wash all affected areas with plenty of water. Avoid dust generation. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration.
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 Storage temperature	Keep only in original packaging. Keep in a well ventilated place. Keep container closed. 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

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8.1.1 Occupational exposure limits

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

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Thermal hazards

Not applicable.

8.2.3 Environmental exposure controls

Avoid release to the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	Solid
Colour	No information available.
Odour	Odourless
Melting point/freezing point	1210 - 1344°C
Initial boiling point and boiling range	No information available.
Flammability (solid, gas)	Explosion: May form combustible dust concentrations in air. Maximum explosion pressure rise (P _{max}) = 2.9 bar (BS EN 14034) Coefficient of pressure rise (K _{st}) = 28 bar.m.s ⁻¹ (BS EN 14034) Maximum Rate of Pressure Rise (dP/dt) _{max} = 103 bar.s ⁻¹ (BS EN 14034) St Class =1 (BS EN 14034)
Upper/lower flammability or explosive limits	Layer ignition temperature = >400°C (BS EN 50281-2-1) LIT Value (> 400°C), minus 75°C Safety Factor = 325 °C MIT Value (920°C), minus 1/3 Safety Factor = 613 °C Capacitive & Inductive MIE = > 1000 mJ
Flash point	No information available.
Auto-ignition temperature	No information available.
Decomposition temperature	No information available.
pH	No information available.
Viscosity	No information available
Solubility(ies)	No information available..
Partition coefficient: n-octanol/water	No information available..
Vapour pressure	No information available..
Vapour density	No information available..
Relative density	8.22 g/cm ³ .

9.2 Other information

Particle size	<15 µm
Explosive properties	No information available.
Oxidising properties	Not oxidising.
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. May form combustible dust concentrations in air.
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 hazard classes as defined in Regulation (EC) No 1272/2008
Acute Toxicity - Ingestion

Mixture: Based upon the available data, the classification criteria are not met.

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Acute Toxicity - Inhalation	Calculated acute toxicity estimate (ATE) >2,000 mg/kg. Mixture: Based upon the available data, the classification criteria are not met.
Acute Toxicity - Skin contact	Calculated acute toxicity estimate (ATE) > 5 mg/L (Dust) Mixture: Based upon the available data, the classification criteria are not met.
Skin corrosion/irritation	Calculated acute toxicity estimate (ATE) >2,000 mg/kg. 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. 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
Germ cell mutagenicity	Mixture: Muta 2; H341: Suspected of causing genetic defects.
	Cobalt Muta 2; H341: Suspected of causing genetic defects. EU Harmonised Classification
Carcinogenicity	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.
Reproductive toxicity	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)
STOT - single exposure	Mixture: Based upon the available data, the classification criteria are not met.
STOT - repeated exposure	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
Aspiration hazard	Mixture: Based upon the available data, the classification criteria are not met.
11.2 Information on other hazards	
11.2.1 Endocrine disrupting properties	None known.
11.2.2 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) No data for the mixture as a whole.
12.2 Persistence and degradability	Nickel Not applicable for inorganic substances. Cobalt Not applicable for inorganic substances. Manganese Not applicable for inorganic substances.

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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)
12.5	Results of PBT and vPvB assessment	Not classified as PBT or vPvB.
12.6	Endocrine disrupting properties	None known.
12.7	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 or ID 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
		Marine Pollutant.	
14.6	Special precautions for user	See Section: 2	
14.7	Maritime transport in bulk according to IMO instruments	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: New SDS Regulation 2020/878 format, all sections have been updated to include new information. Please review SDS with care.

References:

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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.
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) & 2020/878

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

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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.

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