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1.1		
	Product identifier	
	Product name	300M (20-53µm)
	Product code	GMP 300M
	Unique Formula Identifier (UFI)	Not applicable
	Nanoform	Not applicable
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	Anything other than the above.
1.3	Details of the supplier of the safety data sheet	
	Company Identification	Globus Metal Powders Ltd.
	Telephone	Materials Processing Institute, Eston Road, Middlesbrough, TS6 6US
	Fax	+44(0)164 238 2000
	E-mail (competent person)	gmp@globusmetalpowders.com
1.4	Emergency telephone number	000 / 111 (or least amorgane)
	Emergency Phone No. Language(s) spoken:	999 / 111 (or local emergency number) English (or local language)
	Language(s) spoken.	
2.	SECTION 2: Hazards identification	
2.1	Classification of the substance or mixture	
	Regulation (EC) No. 1272/2008 (CLP)	Skin Sens. 1: H317
		Carc. 2; H351
		STOT RE 2; H373
2.2	Label elements	According to Regulation (EC) No. 1272/2008 (CLP)
	Product name	300M
	Contains:	Nickel
	Hazard Pictogram(s)	
	Signal Word(s)	WARNING
	Hazard Statement(s)	H317: May cause an allergic skin reaction.
		H351: Suspected of causing cancer.
		H373: May cause damage to organs through prolonged or repeated exposure.
	Precautionary Statement(s)	P260: Do not breathe dust.
	Precautionary Statement(s)	P260: Do not breathe dust. P280: Wear eye protection/face protection.
	Precautionary Statement(s)	P280: Wear eye protection/face protection.
	Precautionary Statement(s)	P280: Wear eye protection/face protection. P270: Do not eat, drink or smoke when using this product.
	Precautionary Statement(s)	P280: Wear eye protection/face protection. P270: Do not eat, drink or smoke when using this product. P314: Get medical advice/attention if you feel unwell.
	Precautionary Statement(s)	P280: Wear eye protection/face protection. P270: Do not eat, drink or smoke when using this product.

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2.3 Other hazards

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

3. SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

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 Statement(s)
Nickel	1 - 2	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

Note: For full text of H phrases see section 16.

4. SECTION 4: 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.
Most important symptoms and effects, both acute and delayed	May cause an allergic skin reaction. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure.
Indication of any immediate medical attention and special treatment needed	Treat symptomatically.
	inhalation Skin contact Eye contact Ingestion Most important symptoms and effects, both acute and delayed Indication of any immediate medical attention and

5. SECTION 5: Firefighting measures 5.1 Extinguishing media Suitable extinguishing media Unsuitable extinguishing media 5.2 Special hazards arising from the substance or mixture 5.3 Advice for firefighters As appropriate for surrounding fire. Use CO2, dry chemical, or foam. Do not use water jet. Direct water jet may spread the fire. Not flammable. Combustion products:, Carbon monoxide, Carbon dioxide and Nickel carbonyl gas. Fight fire with normal precautions from a reasonable distance. Fire fighters should

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.



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6.	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.
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.
7.	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.
	Specific end use(s)	See Section: 1.2.

8. 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/m³)	STEL (ppm)	STEL (mg/m³)	Note
Nickel	7440-02-0	-	0.5	-	-	UK WEL
Copper and compounds; dust and mists	-	0.2	-	-	-	UK WEL
						UK WEL
		-	0.2	-	-	Inhalable
Manganese	7439-96-5	-	0.05	-	-	fraction
						Respirabl
						e fraction
						UK WEL
			10		10	Inhalable
Silicon	7440-21-3	-	4	10	4	fraction
				4		Respirabl
						e fraction

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

8.1.2 Biological Limit Value

Not established.

8.1.3 PNECs and DNELs

Not established.

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Gelobus METAL POWDERS EXCELLENCE IN EVERY PARTICLE

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8.2 8.2.1	Exposure controls 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.
Prote		ng place, depending on concentration and quantity of the hazardous substances 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.

9. SECTION 9: Physical and chemical properties

9.1	Information on basic physical and chemical propert	ies
	Physical state	Solid
	Colour	Grey
	Odour	Odourless
	Melting point/freezing point	No information available.
	Boiling point or initial boiling point and boiling range	No information available.
	Flammability	Not flammable
	Lower and upper explosion limit	Not applicable
	Flash point	Not applicable
	Auto-ignition temperature	Does not support combustion. (BS EN 14034)
		Layer ignition temperature - >400°C (BS EN 50281-2-1)
	Decomposition temperature	Not applicable
	рН	No information available.
	Kinematic viscosity	Not applicable
	Solubility	No information available.
	Partition coefficient: n-octanol/water (log value)	Not applicable
	Vapour pressure	Not applicable
	Density and/or relative density	7.87 g/cm ³
	Relative vapour density	Not applicable
	Particle characteristics	20-53µm

Other information

9.2

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Moisture content 0.11 % w/w Explosive properties Not explosive 10. SECTION 10: Stability and reactivity 10.1 Reactivity Stable under normal conditions. 10.2 **Chemical stability** Stable under normal conditions. Possibility of hazardous reactions 10.3 Hazardous polymerisation will not occur. Conditions to avoid 10.4 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. 11. **SECTION 11: Toxicological information** 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 Mixture: Based upon the available data, the classification criteria are not met. Acute toxicity - Ingestion Calculated acute toxicity estimate (ATE) >2,000 mg/kg. Mixture: Based upon the available data, the classification criteria are not met. Acute toxicity - inhalation 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. Nickel Skin Sens. 1; H317: May cause an allergic skin reaction. EU Harmonised Classification EU ECHA Registration Endpoint summary Skin sensitisation - Adverse effects observed (NiPERA Report, 2010) Germ cell mutagenicity Mixture: Based upon the available data, the classification criteria are not met. Carcinogenicity Mixture: Carc. 2; H351: Suspected of causing cancer. Nickel Carc. 2; H351: Suspected of causing cancer. EU Harmonised Classification EU ECHA Registration Endpoint summary Reproductive toxicity Mixture: Based upon the available data, the classification criteria are not met. STOT - single exposure Mixture: Based upon the available data, the classification criteria are not met. STOT - repeated exposure Mixture: STOT RE 2; H373: May cause 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/m3 (rat) (OECD 451) dermal: No data Aspiration hazard Mixture: Based upon the available data, the classification criteria are not met. Acute toxicity - Ingestion Mixture: Based upon the available data, the classification criteria are not met. Calculated acute toxicity estimate (ATE) >2,000 mg/kg. 11.2 Information on other hazards 11.2.1 Endocrine disrupting properties Does not cause endocrine disruption. 11.2.2 Other information None known

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	SECTION 12: Ecological information				
12.	_		Mistary America Obrania		
12.1	Toxicity			3; H412: Harmful to aquatic	life with long lasting effects
		NUMBER	estimated LC50 (Mixture):	-	and the first off and a
		INICKEI		Harmful to aquatic life with I	ong lasting effects.
			EU Harmonised Classifica		
	-		NOEC: 0.057 ug/L (Birge	,	
12.2	Persistence and degradability		No data for the mixture as		
40.0	Discourse letters we take the	NICKEI	Not applicable for inorgan		
12.3	Bioaccumulative potential	NUMBER	No data for the mixture as		
		NICKEI	Low bioaccumulation pote		
40.4	Mahilityin anil		BCF: 45 (Alikhan et al. 19	/	
12.4	Mobility in soil	Nieliel	No data for the mixture as		
		INICKEI		b have high mobility in soil.	
10 E	Populto of PPT and vPvP accessment		Log Kp: 4.51 (Elbaz-Pouli		
12.5 12.6	Results of PBT and vPvB assessment		Not classified as PBT or v		
12.6	Endocrine disrupting properties Other adverse effects		Does not cause endocrine None known.		
12.1	Outer auverse effects				
13.	SECTION 13: Disposal considerations				
13.1	Waste treatment methods		Do not allow to enter drain	ns, sewers or watercourses.	Dispose of this material
			and its container as hazar	dous waste Disposal should	be in accordance with
			local, state or national leg	•	
13.2	Additional information		Avoid release to the envir		
14.	SECTION 14: Transport information				
Not cl	assified according to the United Nations 'Recommenda	ations c	on the Transport of Danger	ous Goods'.	
			ADR/RID	IMDG	IATA/ICAO
14.1	UN number or ID number		None assigned	None assigned	None assigned
14.2	UN proper shipping name		None assigned	None assigned	None assigned
14.3	Transport hazard class(es)		None assigned	None assigned	None assigned
14.3 14.4	Transport hazard class(es) Packing group		None assigned None assigned	None assigned None assigned	None assigned None assigned
14.3	Transport hazard class(es)		None assigned	None assigned None assigned Not classified as a	None assigned
14.3 14.4 14.5	Transport hazard class(es) Packing group Environmental hazards		None assigned None assigned Not classified	None assigned None assigned	None assigned None assigned
14.3 14.4 14.5 14.6	Transport hazard class(es) Packing group Environmental hazards Special precautions for user		None assigned None assigned Not classified See Section: 2	None assigned None assigned Not classified as a Marine Pollutant.	None assigned None assigned Not classified
14.3 14.4 14.5	Transport hazard class(es) Packing group Environmental hazards Special precautions for user Maritime transport in bulk according to IMO		None assigned None assigned Not classified	None assigned None assigned Not classified as a	None assigned None assigned
14.3 14.4 14.5 14.6 14.7	Transport hazard class(es) Packing group Environmental hazards Special precautions for user Maritime transport in bulk according to IMO instruments		None assigned None assigned Not classified See Section: 2 No information available.	None assigned None assigned Not classified as a Marine Pollutant. No information available.	None assigned None assigned Not classified No information available.
14.3 14.4 14.5 14.6	Transport hazard class(es) Packing group Environmental hazards Special precautions for user Maritime transport in bulk according to IMO		None assigned None assigned Not classified See Section: 2	None assigned None assigned Not classified as a Marine Pollutant.	None assigned None assigned Not classified
14.3 14.4 14.5 14.6 14.7 14.8	Transport hazard class(es) Packing group Environmental hazards Special precautions for user Maritime transport in bulk according to IMO instruments	ION	None assigned None assigned Not classified See Section: 2 No information available.	None assigned None assigned Not classified as a Marine Pollutant. No information available.	None assigned None assigned Not classified No information available.
14.3 14.4 14.5 14.6 14.7 14.8 15 .	Transport hazard class(es) Packing group Environmental hazards Special precautions for user Maritime transport in bulk according to IMO instruments Additional information SECTION 15: REGULATORY INFORMAT	TON	None assigned None assigned Not classified See Section: 2 No information available.	None assigned None assigned Not classified as a Marine Pollutant. No information available.	None assigned None assigned Not classified No information available.
14.3 14.4 14.5 14.6 14.7 14.8	Transport hazard class(es) Packing group Environmental hazards Special precautions for user Maritime transport in bulk according to IMO instruments Additional information SECTION 15: REGULATORY INFORMAT Safety, health and environmental		None assigned None assigned Not classified See Section: 2 No information available.	None assigned None assigned Not classified as a Marine Pollutant. No information available.	None assigned None assigned Not classified No information available.
14.3 14.4 14.5 14.6 14.7 14.8 15 .	Transport hazard class(es) Packing group Environmental hazards Special precautions for user Maritime transport in bulk according to IMO instruments Additional information SECTION 15: REGULATORY INFORMAT Safety, health and environmental regulations/legislation specific for the substance		None assigned None assigned Not classified See Section: 2 No information available.	None assigned None assigned Not classified as a Marine Pollutant. No information available.	None assigned None assigned Not classified No information available.
14.3 14.4 14.5 14.6 14.7 14.8 15.	Transport hazard class(es) Packing group Environmental hazards Special precautions for user Maritime transport in bulk according to IMO instruments Additional information SECTION 15: REGULATORY INFORMAT Safety, health and environmental regulations/legislation specific for the substance mixture		None assigned None assigned Not classified See Section: 2 No information available.	None assigned None assigned Not classified as a Marine Pollutant. No information available.	None assigned None assigned Not classified No information available.
14.3 14.4 14.5 14.6 14.7 14.8 15 .	Transport hazard class(es) Packing group Environmental hazards Special precautions for user Maritime transport in bulk according to IMO instruments Additional information SECTION 15: REGULATORY INFORMAT Safety, health and environmental regulations/legislation specific for the substance mixture EU regulations		None assigned None assigned Not classified See Section: 2 No information available. None	None assigned None assigned Not classified as a Marine Pollutant. No information available.	None assigned None assigned Not classified No information available.
14.3 14.4 14.5 14.6 14.7 14.8 15.1 15.1	Transport hazard class(es) Packing group Environmental hazards Special precautions for user Maritime transport in bulk according to IMO instruments Additional information SECTION 15: REGULATORY INFORMAT Safety, health and environmental regulations/legislation specific for the substance mixture EU regulations Authorisations and/or restrictions on use		None assigned None assigned Not classified See Section: 2 No information available.	None assigned None assigned Not classified as a Marine Pollutant. No information available.	None assigned None assigned Not classified No information available.
14.3 14.4 14.5 14.6 14.7 14.8 15.	Transport hazard class(es) Packing group Environmental hazards Special precautions for user Maritime transport in bulk according to IMO instruments Additional information SECTION 15: REGULATORY INFORMAT Safety, health and environmental regulations/legislation specific for the substance mixture EU regulations Authorisations and/or restrictions on use National regulations		None assigned None assigned Not classified See Section: 2 No information available. None	None assigned None assigned Not classified as a Marine Pollutant. No information available.	None assigned None assigned Not classified No information available.
14.3 14.4 14.5 14.6 14.7 14.8 15.1 15.1 15.1.1	Transport hazard class(es) Packing group Environmental hazards Special precautions for user Maritime transport in bulk according to IMO instruments Additional information SECTION 15: REGULATORY INFORMAT Safety, health and environmental regulations/legislation specific for the substance mixture EU regulations Authorisations and/or restrictions on use National regulations Germany		None assigned None assigned Not classified See Section: 2 No information available. None Not restricted Water hazard class: 2	None assigned None assigned Not classified as a Marine Pollutant. No information available. None	None assigned None assigned Not classified No information available. None
14.3 14.4 14.5 14.6 14.7 14.8 15.1 15.1	Transport hazard class(es) Packing group Environmental hazards Special precautions for user Maritime transport in bulk according to IMO instruments Additional information SECTION 15: REGULATORY INFORMAT Safety, health and environmental regulations/legislation specific for the substance mixture EU regulations Authorisations and/or restrictions on use National regulations		None assigned None assigned Not classified See Section: 2 No information available. None Not restricted Water hazard class: 2 A REACH chemical safe	None assigned None assigned Not classified as a Marine Pollutant. No information available.	None assigned None assigned Not classified No information available. None

16. SECTION 16: Other information

The following sections contain revisions or new statements:

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References:

EU **Harmonised Classification** and EU ECHA registration dossier for Nickel (CAS No. 7440-02-0) Test Result, Report Number: R 002912R3V1RS, Sigma-HSE (UK) Ltd (2022).

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
Carc. 2; H351	Threshold Calculation
STOT RE 2; H373	Threshold Calculation

Legend		
ADR	ADR: European Agreement concerning the Internati	onal Carriage of Dangerous Goods by Road
BCF	Bioconcentration Factor	
CAS	CAS: Chemical Abstracts Service	
DNEL	Derived no effect level	
EC	EC: European Community	
EN	European Standard	
EU	European Union	
IATA	IATA: International Air Transport Association	
ICAO/IATA	ICAO: International Civil Aviation Organization / IAT	A: International Air Transport Association
IMDG	IMDG: International Maritime Dangerous Goods	
LC50	Lethal concentration 50	
LD50	Lethal dose 50	
LIT	Layer Ignition Temperature	
LOAEC	Lowest Observed Adverse Effect Concentration	
LTEL	Long term exposure limit	
MIE	Minimum Ignition Energy	
MIT	Minimum Ignition Temperature	
NOEC	No Observed Effect Concentration	
NOAEL	No Observed Adverse Effect Level	
OECD	Organisation for Economic Cooperation and Develo	pment
PBT	PBT: Persistent, Bioaccumulative and Toxic	
PNEC	Predicted No Effect Concentration	
REACH	Registration, Evaluation, Authorisation and Restricti	on of Chemicals
STEL	Short term exposure limit	
TWA	Time Weighted Average	
UN	United Nations	
vPvB	very Persistent and very Bioaccumulative	
WGK	Wassergefährdungsklasse (Germany) / water hazar	d class
Hazard classificati	on / Classification code:	Hazard Statement(s)
Skin Sens. 1; Skin S	Sensitisation, Category 1	H317: May cause an allergic skin reaction.

Skin Sens. 1; Skin Sensitisation, Category 1 H317: May cause an allergic skin reaction. Carc. 2; Carcinogenicity, Category 2 H351: Suspected of causing cancer. STOT RE 1; Specific target organ toxicity - repeated exposure, H372: Causes damage to organs through prolonged or repeated Category 1 exposure. STOT RE 2; Specific target organ toxicity - repeated exposure, H373: May cause damage to organs through prolonged or repeated Category 2 exposure. Aquatic Chronic 2; Hazardous to the aquatic environment, Chronic, H411: Toxic to aquatic life with long lasting effects. Category 2 Aquatic Chronic 3; Hazardous to the aquatic environment, Chronic , H412: Harmful to aquatic life with long lasting effects. Category 3

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



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