Mill Scale

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Date of issue: 8th December 2022 Date of First Issue: 30th June 2021 Version 2.0

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

This material is defined as a "waste" and is therefore exempt from CLP 1272/2008 and SDS regulation 2020/878. An SDS has been provided for supply chain communication purposes and handling / storage recommendations only.

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

Product Name Frade Names Product Code CAS No. EC No. Jnique Formula Identifier (UFI) Nanoform Relevant identified uses of the substance or mixture and uses advised against dentified use(s) Jses advised against Details of the supplier of the safety data sheet Company Identification	Mill Scale Mill scale, mill scale sludge Not applicable 1345-25-1 215-721-8 Not applicable Not applicable A secondary product formed during the hot working of plain carbon steels and cold processing of heated steels. Used as a secondary raw material in cement industry and recovery of metals in waste and steel industries. Nothing Speciality Steel UK Ltd T/A Liberty Speciality Steels 7 Fox Valley Way Stocksbridge, Sheffield, S36 2JA +44 (0) 114 2882361 contactus@specialityuk.com
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•	Stocksbridge, Sheffield, S36 2JA +44 (0) 114 2882361
•	S36 2JA +44 (0) 114 2882361
•	+44 (0) 114 2882361
•	
E-mail (competent person)	contactus@speciality.uk.com
	contactus@specialityuk.com
Emergency Telephone Number	
Emergency Phone No.	+44 (0)1709 826 500
anguage(s) spoken:	English
CTION 2: HAZARDS IDENTIFICATION	
Classification of the substance or mixture	
Regulation (EC) No. 1272/2008 (CLP)	This material is defined as a "waste" and is therefore exempt from CLP 1272/2008 and SDS regulation 2020/878. An SDS has been provided for supply chain communication purposes and handling / storage recommendations only.
abel elements	According to Regulation (EC) No. 1272/2008 (CLP)
	Mill Scale
	not applicable
	not applicable
o ()	not applicable
e	not applicable
	not applicable
Supplemental information	not applicable
Other hazards	Mill scale may be contaminated with some residual oil from the process, prolonged contact with the skin may also cause skin irritation, although the risk is low.
	Classification of the substance or mixture tegulation (EC) No. 1272/2008 (CLP) abel elements Product name Contains: lazard Pictogram(s) signal Word(s) lazard Statement(s) Precautionary Statement(s) Supplemental information

3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Mill Scale

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

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	SUBSTANCE		CAS No.	EC No.	REACH Registration No.	%W/W			
	Iron oxide		1345-25-1	215-721-8	Not yet assigned in the supply chain	> 70			
4	. S	SECTION 4: FIRST AID MEAS	SURES						
	÷								
	4.1	Description of first aid measures	i						
		Self-protection of the first aider		special precautions are rec					
		Inhalation	COI	mfortable for breathing. I	e victim to fresh air and keep at re Dusts: Remove person to fresh (posed or concerned: Get medical a	air and keep			
		Skin contact			, edical advice/attention. Dusts: Mech				
				•	kin with water. If irritation (redness,	rash, blistering)			
		Eye contact		velops, get medical attentio	n. sent and easy to do. Continue rinsir	na Hold evelide			
		Lyc contact			enty of water for at least 15 minu	• •			
				velops and persists, get me					
	4.2	Ingestion Most important symptoms and e		e plenty of water to drink. (ne anticipated. Machining r	Get medical advice/attention if you for a second seco	eel unwell.			
	4.2	and delayed		ne anticipated. Machining i	nay create dust.				
	4.3	Indication of any immediate med special treatment needed	ical attention and No	information available. Trea	t symptomatically.				
5		SECTION 5: FIREFIGHTING							
			WEASONES						
	5.1	Extinguishing media		· · · ·	r.				
	Suitable extinguishing media			As appropriate for surrounding fire. Small scale: Extinguish preferably with dry chemical, foam, waterspray or sand.					
				Large scale: Use water spray, foam, dry powder or CO2 to extinguish.					
		Unsuitable extinguishing media		As appropriate for surrounding fire.					
	5.2	Special hazards arising from the mixture	substance or No	ubstance or None known.					
	5.3	Advice for firefighters			nplete protective clothing including				
					preathe fumes. Toxic fumes may be				
				er drains or water courses.	and eyes. Do not allow run-off from	i line lighting to			
6	. s	SECTION 6: ACCIDENTAL R	ELEASE MEASURE	S					
	6.1	Personal precautions, protective emergency procedures	equipment and						
		General measures applicable to all		oid contact with skin, eyes tercourses.	or clothing. Do not allow to enter dr	ains, sewers or			
	6.1.1	For non-emergency personnel	winmont and W/	or quitable protective elett	aing in and of fire: Line colf contr	ningd broathing			
	Personal precautions, protective equipment and emergency procedures			Wear suitable protective clothing. In case of fire: Use self-contained breathing apparatus. Wear suitable gloves and eye/face protection.					
		Emergency procedures		special measures are requ					
	6.1.2	Self-protection of the first aider							
		Personal precautions, protective ec emergency procedures		ear suitable protective clo equate ventilation.	othing, gloves and eye/face prot	ection. Ensure			
		Emergency procedures		special measures are requ	ired.				

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6.2 6.3 6.4	Environmental precautions Methods and material for containment and cleaning up Reference to other sections	Do not allow run-off from fire fighting to enter drains or water courses. Use appropriate containment. Ensure all waste water is collected and treated via a waste water treatment plant. Avoid release to the environment. Avoid generation of dust. Dispose of material in accordance with local, state or national legislation. See Section: 8, 13
7.	SECTION 7: HANDLING AND STORAGE	
7.1	Precautions for safe handling Hygiene Measures	Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Remove contaminated clothing and wash clothing before reuse. Opened containers should be carefully resealed and stored in an upright position. Keep away from heat and sparks. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Take care for general good hygiene and housekeeping.
7.2 7.3	Conditions for safe storage, including any incompatibilities Storage temperature Incompatible materials Specific end use(s)	Ambient temperatures. None known 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/m ³)	Note
Iron oxide	7439-96-5	-	5	-	10	UK WEL

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

8.1.2	Biological limit value	Not established.
8.1.3	PNECs and DNELs	Not established.
8.2 8.2.1	Exposure controls Appropriate engineering controls	Ensure adequate ventilation. All handling of the product should be carried out using machinery to prevent or minimise contact
8.2.2	Individual protection measures, such as personal protective equipment	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. 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	Use of safety goggles is advisable
	Skin protection	Hand protection: Use of gloves is advisable.

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Body protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved.

Respiratory protection



9.

Not normally required.

Avoid release to the environment.

Thermal hazards

Not applicable

8.2.3 Environmental exposure controls

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1	Information on basic physical and chemical propertie	es
	Physical state	Solid
	Colour	Black
	Odour	None
	Melting point/freezing point	> 1400℃ at 1 013 hPa
	Boiling point or initial boiling point and boiling range	Not established
	Flammability	Not established
	Lower and upper explosion limit	Not established
	Flash point	Not established
	Auto-ignition temperature	Not established
	Decomposition temperature	Not established
	pH	10 –12.5 (DEV-S4-eluate according EN 12457-4)
	Kinematic viscosity	Not established
	Solubility	Insoluble in water (<1 µg/l)
	Partition coefficient: n-octanol/water (log value)	Not established
	Vapour pressure	Not established
	Density and/or relative density	Between 3.2 and 5.7 g/cm3 at 20 ℃
	Relative vapour density	Not established
	Particle characteristics	No data available
9.2	Other information	None known

10. SECTION 10: STABILITY AND REACTIVITY

- 10.1 Reactivity10.2 Chemical stability
- 10.3 Possibility of hazardous reactions
- 10.4 Conditions to avoid
- 10.5 Incompatible materials

- Stable under normal conditions. Stable under normal conditions. Hazardous polymerisation will not occur. Should be kept away from naked flames and other sources of ignition. None known None known
- 10.6 Hazardous decomposition products

11. SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 Acute toxicity - Ingestion Acute toxicity - Inhalation Acute toxicity - Skin contact Skin corrosion/irritation Serious eye damage/irritation

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

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Respiratory or skin sensitisation Germ cell mutagenicity Carcinogenicity Reproductive toxicity STOT - Single Exposure STOT - Repeated Exposure Aspiration hazard Information on other hazards

11.2 Information on other hazards11.2.1 Endocrine disrupting properties

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

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

This substance does not have endocrine disrupting properties with respect to humans. None

11.2.2 Other information

12. SECTION 12: ECOLOGICAL INFORMATION

- 12.1 Toxicity
- 12.2 Persistence and degradability
- 12.3 Bioaccumulative potential
- 12.4 Mobility in soil
- 12.5 Results of PBT and vPvB assessment
- 12.6 Endocrine disrupting properties
- 12.7 Other adverse effects

13. SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste Code Waste classification according to Directive 2008/98/EC (Waste Framework Directive)

No data Not classified as PBT or vPvB. This substance does not have endocrine disrupting properties with respect to non-target organisms. No information available

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

Not applicable for inorganic substances.

Disposal should be in accordance with local, state or national legislation. EWC-Code: 10 02 10 Not applicable

14. SECTION 14: TRANSPORT INFORMATION

This material is defined as a "waste" and is therefore exempt from CLP 1272/2008 and SDS regulation 2020/878. An SDS has been provided for supply chain communication purposes and handling / storage recommendations only. Not classified according to the United Nations 'Becommendations on the Transport of Dangerous Goods'.

No data

Not clas	ssified according to the United Nations 'Recommendation		0		
		ADR/RID	ADN	IMDG	IATA/ICAO
14.1	UN number or ID number	Not applicable.	Not applicable.	Not applicable.	Not applicable.
14.2	UN proper shipping name	Not applicable.	Not applicable.	Not applicable.	Not applicable.
14.3	Transport hazard class(es)	Not applicable.	Not applicable.	Not applicable.	Not applicable.
14.4	Packing group	Not applicable.	Not applicable.	Not applicable.	Not applicable.
	Hazard label(s) (UN)	Not applicable.	Not applicable.	Not applicable.	Not applicable.
		Not applicable.	Not applicable.	Not applicable.	Not applicable.
14.5	Environmental hazards	Not applicable.			
14.6	Special precautions for user	Not applicable.			
14.7	Maritime transport in bulk according to IMO	Not applicable.			
	instruments				
14.8	Additional information	Not applicable.			
	Hazard Identification Number (Kemler Code)	Not applicable.			
	Classification code: UN	Not applicable.			
	Orange plates	Not applicable.			
	Special Provisions	Not applicable.			
	ADR Transport Category	Not applicable.			
	Tunnel Restriction Code	Not applicable.			
	Limited Quantity (ADR)	Not applicable.			
	Excepted quantities (ADR)	Not applicable.			
	EAC code	Not applicable.			

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15. 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
	Substance(s) of Very High Concern (SVHCs)
15.1.2	National regulations
15.2	Chemical Safety Assessment

Not restricted Not listed None known. A chemical safety assessment is not required under REACH.

16. 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: Safety Data Sheets for ingoing ingredients. Regulation (EC) No. 1272/2008 (CLP). REACH Regulation (EC) No. 1907/2006.

Hazard classification: This material is defined as a "waste" and is therefore exempt from CLP 1272/2008 and SDS regulation 2020/878. An SDS has been provided for supply chain communication purposes and handling / storage recommendations only.

EU Classification: This Safety Data Sheet was prepared in accordance with EC Regulation (EC) 1907/2006 (REACH), 1272/2008 (CLP) & 2020/878

Legend	
ADR	ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DNEL	Derived no effect level
EU	European Union
HSE	Health and Safety Executive
IATA	IATA: International Air Transport Association
ICAO	ICAO: International Civil Aviation Organization
IMDG	IMDG: International Maritime Dangerous Goods
LTEL	Long term exposure limit
OEL	Occupational exposure limits
PBT	PBT: Persistent, Bioaccumulative and Toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	RID: Regulations concerning the international railway transport of dangerous goods
vPvB	vPvB: very Persistent and very Bioaccumulative

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.

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