

Alloy Steels (<1% Nickel)

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

Date of issue: 8th December 2022 Date of First Issue: 1st July 2021 Version 2 0

This material is produced as an "article" as defined in Regulation (EC) No 1907/2006 (REACH Regulation) and is therefore exempt from CLP 1272/2008 and SDS regulation 2020/878.

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

1.1 Product Identifier

Product Name Alloy Steels (<1% Nickel)
Trade Name Special purpose alloy steels

Product Code Not applicable
Unique Formula Identifier (UFI) Not applicable
Nanoform Not applicable

1.2 Relevant identified uses of the substance or mixture

and uses advised against

Uses advised against

Identified use(s) Construction, automotive, energy/power, transport, defence and security,

engineering, consumer products, lifting and excavating and packaging.

None

1.3 Details of the supplier of the safety data sheet

Company Identification

Speciality Steel UK Ltd T/A Liberty Speciality Steels

7 Fox Valley Way Stocksbridge, Sheffield,

S36 2JA

Telephone +44 (0) 114 2882361+44 (0) 114 2882361

E-mail (competent person) contactus@specialityuk.com

1.4 Emergency Telephone Number

Emergency Phone No. +44 (0)1709 826 500 +44 (0)1709 826 500

Language(s) spoken: English

2. SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture Regulation (EC) No. 1272/2008 (CLP)

This material is produced as an "article" as defined in Regulation (EC) No 1907/2006 (REACH Regulation) and is therefore exempt from CLP 1272/2008 and SDS regulation 2020/878. Since this material has no intended release of a substance and will not result in exposure to a hazardous chemical under normal conditions of use, no hazard classification or Safety Data Sheet is required. An SDS has been provided for supply chain communication purposes and handling / storage recommendations only

2.2 Label elements According to Regulation (EC) No. 1272/2008 (CLP)

Product name Alloy Steels (<1% Nickel)

Contains: Not applicable.

Hazard Pictogram(s) Not applicable.

Signal Word(s) Not applicable.

Hazard Statement(s) Not applicable.

Precautionary Statement(s) Not applicable

Supplemental information Not applicable

2.3 Other hazards Pre-finished steel can have sharp edges and corners, and relevant precautions

should be taken when handling and storing. Under normal conditions of use and storage these materials are stable and non-toxic. Some steels may be coated with a non-dangerous oil, prolonged exposure to which may give rise to skin

irritation.



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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS 3.

3.2 **Mixtures**

As the product is an article (as defined in Regulation (EC) No 1907/2006), no components need to be listed within section 3 of the SDS as the requirements of SDS regulation 2020/878 do not apply. This product does not contain any known substances substances of very high concern" (SVHC's). An SDS has been provided for supply chain communication purposes and handling / storage recommendations only

4. **SECTION 4: FIRST AID MEASURES**



4.2

5.2

6.3

Description of first aid measures

Self-protection of the first aider

Inhalation

Skin contact

Eye contact

Ingestion

and delayed 4.3 Indication of any immediate medical attention and

special treatment needed

No special precautions are required for this product.

If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Dusts: Remove person to fresh air and keep comfortable for breathing. If exposed or concerned: Get medical attention/advice. If skin irritation occurs, get medical advice/attention. Dusts: Mechanical irritation of the skin and eyes. Wash skin with water. If irritation (redness, rash, blistering)

develops, get medical attention.

Remove contact lenses, if present and easy to do. Continue rinsing. Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. If irritation develops and persists, get medical attention.

Give plenty of water to drink. Get medical advice/attention if you feel unwell.

None anticipated. Machining and hot work may create dust.

No information available. Treat symptomatically.

5. **SECTION 5: FIREFIGHTING MEASURES**

5.1 Extinguishing media

> Suitable extinguishing media As appropriate for surrounding fire. Steel is non-flammable and has a melting

> > point of >1 000 °C.

Unsuitable extinguishing media

Special hazards arising from the substance or

mixture Advice for firefighters 5.3

None None

None

6. **SECTION 6: ACCIDENTAL RELEASE MEASURES**

Most important symptoms and effects, both acute

6.1 Personal precautions, protective equipment and

emergency procedures

Product is sold in solid massive form and an accidental spill could not occur

6.2 Environmental precautions

None Methods and material for containment and cleaning None

up

6.4 Reference to other sections See Section: 8, 13

SECTION 7: HANDLING AND STORAGE 7.

7.1 Precautions for safe handling

Alloy steel (<1% nickel) is sold in many forms, sheet, coils, sections, tube, pipe, plate or as semi-finished products. Care should be taken when handling, as there may be sharp edges present. Where required the use of hard wearing (protective) gloves and overalls should be used to prevent cuts and abrasions. Care should be taken when lifting heavy loads and, where necessary, use appropriate lifting equipment to do so. Coil bundles may be secured by banding straps, which may

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have been fitted under tension so care should be taken when removing them. Steel products should never be lifted by retaining straps or bands since these may

snap and release the load during lifting.

7.2 Conditions for safe storage, including any incompatibilities

Some products may be secured by using straps or bands, which could cause injury to eyes or other injuries when tension is released. There may be sharp edges present, which could cause lacerations. Store in an appropriate facility to prevent damage, use suitable racks or storage pallets. Lifting should always be carried out in a way that prevents injury to operators or damage to the lifting

equipment.

Storage temperature Incompatible materials

Ambient temperatures.

None known. See Section: 1.2.

7.3 Specific end use(s)

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
						UK WEL
Manganese	7439-96-5	-	0.2	-	-	Inhalable fraction
		-	0.05	-	-	Respirable fraction
Nickel	7440-02-0	=	0.5	-	-	UK WEL
Copper and compounds; dust and mists	-	0.2	-	-	-	UK WEL
						UK WEL
Molybdenum	7439-98-7	-	5	-	10	Soluble compounds
		-	10	-	20	Insoluble compounds
Cadmium	7440-43-9	-	0.025	-	-	UK WEL, Carc

Source: UK WEL: Workplace Exposure Limit (UK HSE EH40); IOELV: Indicative Occupational Exposure Limit Value

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 If hot work activities, such as welding or burning, or mechanical abrasion are to

take place local exhaust ventilation (LEV) should be used to remove any

fume/dust produced-

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 suitable eye protection.



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Skin protection

Wear protective gloves.

Respiratory protection



Ori-nasal respirators fitted with either a P2 or P3 filter (EN149: FFP2S / FFP3S) should be used when welding or burning, or depending on the dust/fume concentration when grinding.

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 properties

Physical state Solid

Colour Steel

Odour None - Article with no

Melting point/freezing point 1 450-1 520 °C at 1 013 hPa (steel)

Boiling point or initial boiling point and boiling range Not applicable - Article with no inten

Elammability

Flammability

Lower and upper explosion limit

Flash point Auto-ignition temperature Decomposition temperature

nH

Kinematic viscosity

Solubility

Partition coefficient: n-octanol/water (log value)

Vapour pressure

Density and/or relative density Relative vapour density

Particle characteristics

Solid - Article with no intended release

ond - Article with no intended release

Steel

None - Article with no intended release 1 450-1 520°C at 1 013 hPa (steel)

Not applicable - Article with no intended release Not applicable - Article with no intended release Not applicable - Article with no intended release

Not applicable - Article with no intended release Not applicable - Article with no intended release Not applicable - Article with no intended release

Not applicable - Article with no intended release Not applicable - Article with no intended release

Not applicable - Article with no intended release Not applicable - Article with no intended release

Not applicable - Article with no intended release Not applicable - Article with no intended release Not applicable - Article with no intended release

No data available

9.2 Other information None known

10. 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 In contact with strong acids, steels may release gaseous acid decomposition

products (e.g. hydrogen, oxides of nitrogen) and metals will be dissolved in the acid. For chromium-containing steels, contact with strong oxidising agents at high pH (e.g. alkaline cleaners at pH 10-14) may result in the formation of Cr

(IV) compounds at ambient temperatures.

10.4 Conditions to avoid None known

10.5 Incompatible materials Avoid contact with acids and alkalis.

10.6 Hazardous decomposition products None known



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11. SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

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Acute toxicity - Ingestion Based upon the available data, the classification criteria are not met. **Acute toxicity - Inhalation** Based upon the available data, the classification criteria are not met. Acute toxicity - Skin contact Based upon the available data, the classification criteria are not met. Skin corrosion/irritation Based upon the available data, the classification criteria are not met. Serious eve damage/irritation Based upon the available data, the classification criteria are not met. Respiratory or skin sensitisation Based upon the available data, the classification criteria are not met. Germ cell mutagenicity Based upon the available data, the classification criteria are not met. Carcinogenicity Based upon the available data, the classification criteria are not met. Reproductive toxicity Based upon the available data, the classification criteria are not met. STOT - Single Exposure Based upon the available data, the classification criteria are not met. STOT - Repeated Exposure Based upon the available data, the classification criteria are not met. **Aspiration hazard** Based upon the available data, the classification criteria are not met.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties This product does not contain a substance that has endocrine disrupting

properties with respect to humans as no components meets the criteria.

11.2.2 Other information None

12. SECTION 12: ECOLOGICAL INFORMATION

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

 12.2
 Persistence and degradability
 No information available.

 12.3
 Bioaccumulative potential
 No information available.

 12.4
 Mobility in soil
 No information available.

12.5 Results of PBT and vPvB assessment None of the substances in this product fulfil the criteria for being regarded as a

PBT or vPvB substance.

12.6 Endocrine disrupting propertiesThis product does not contain a substance that has endocrine disrupting

properties with respect to non-target organisms as no components meets the

criteria.

12.7 Other adverse effects No information available

13. SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods Steel products are 100% recyclable and should be recycled at "end of life" in all

situations

Waste classification according to Directive 2008/98/EC Not applicable

(Waste Framework Directive)

14. SECTION 14: TRANSPORT INFORMATION

This product is regarded as the article and this product is physically and chemically stable under normal conditions. Thus, this product is not regarded as dangerous goods under UN transport regulations.

		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.



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14.5 **Environmental hazards** Not applicable. 14.6 Special precautions for user Not applicable. Not applicable. 14.7 Maritime transport in bulk according to IMO instruments 14.8 Additional information Not applicable. Hazard Identification Number (Kemler Code) Not applicable. Not applicable. Classification code: UN Orange plates Not applicable. Special Provisions Not applicable. Not applicable. **ADR Transport Category** Not applicable. **Tunnel Restriction Code** Limited Quantity (ADR) Not applicable. Excepted quantities (ADR) Not applicable.

15. SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental

regulations/legislation specific for the substance or

mixture

EAC code

15.1.1 EU regulations

Authorisations and/or restrictions on use

Substance(s) of Very High Concern (SVHCs)

None of the substances is included on the Candidate List of Substances of Very

High Concern for authorisation (Annex XIV) under REACH Regulation (EC) No.

1907/2006

Not restricted

15.1.2 National regulations

None known.

Not applicable.

15.2 Chemical Safety Assessment

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 produced as an "article" as defined in Regulation (EC) No 1907/2006 (REACH Regulation) and is therefore exempt from CLP 1272/2008 and SDS regulation 2020/878.

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

STEL Short term exposure limit
TWA Time Weighted Average



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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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