

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SDS Ref.: T-00503

Date of issue: 23/04/2019 Revision date: 02/07/2019 Supersedes: 23/04/2019 Version: 2.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture

Product name : FLUXOFIL MC466M

Product code : T-00503

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Main use category : Gas shielding electric arc welding flux cored wire.

Industrial/Professional use spec : Reserved for industrial and professional use

Function or use category : Welding and soldering agents

1.2.2. Uses advised against

Restrictions on use : No particular exclusions are known

1.3. Details of the supplier of the safety data sheet

Lincoln Electric Europe B.V. Nieuwe Dukenburgseweg 20 6534 AD Nijmegen - The Netherlands T +31 243 522 911

sds@lincolnelectriceurope.com - www.lincolnelectric.eu

1.4. Emergency telephone number

Emergency number : INRS +33 (0)1.45.42.59.59

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA Belfast	0344 892 0111	Available 24 hours/day
United Kingdom	National Poisons Information Service (Cardiff Centre) Gwenwyn Ward, Llandough Hospital	Penarth CF64 2XX Cardiff	0344 892 0111	Available 24 hours/day

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

However the form in which product is placed on the market does not present a danger, such preparations do not require a label.

No labelling applicable

2.3. Other hazards

Other hazards not contributing to the classification

: Spatter and melting metal can cause burn injuries. UV, IR radiations. Inhalation of vapours may cause respiratory irritation. Excessive or prolonged inhalation of fumes may cause metal fever. Electric shocks can kill. Persons with a pacemaker should not go near welding or cutting operations until they have consulted their doctor and obtained information from the manufacturer of the device.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier		Classification according to Regulation (EC) No. 1272/2008 [CLP]
Manganese substance with a Community workplace exposure limit	(CAS-No.) 7439-96-5 (EC-No.) 231-105-1 (REACH-no) 01-2119449803-34	1 - 5	Not classified

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SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : If breathing becomes difficult (due to inhalation of fume), take the patient to fresh air and

get them to breathe deeply. Seek medical attention if symptoms persist.

First-aid measures after skin contact : In case of burn with hot metal, flush with plenty of water. Seek medical attention if burns

develop

First-aid measures after eye contact : In case of burn with hot metal, flush with plenty of water. Seek medical attention

immediately.

First-aid measures after ingestion : Ingestion unlikely. Obtain emergency medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects : See Heading 2.3.

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 : Dry powder. : Water. Unsuitable extinguishing media

5.2. Special hazards arising from the substance or mixture

Fire hazard : Not flammable.

Hazardous decomposition products in case of fire : May release hazardous fumes.

5.3. Advice for firefighters

Precautionary measures fire : Eliminate all ignition sources if safe to do so.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

Other information : Do not remove damaged packages. Move only undamaged packages out of fire zone.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

Measures in case of dust release : Wear suitable respiratory equipment.

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Do not touch or walk on the spilled product. Place in a suitable container for disposal in

accordance with the waste regulations (see Section 13).

Other information : Contain and collect as any solid.

6.4. Reference to other sections

See Heading 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Provide local exhaust or general room ventilation to minimize exposure to dust.

: Local exhaust and general ventilation must be adequate to meet exposure standards. Precautions for safe handling

: Wash hands and other exposed areas with mild soap and water before eating, drinking or Hygiene measures

smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in dry protected location to prevent any moisture contact. Keep container closed

when not in use. Keep only in original container.

7.3. Specific end use(s)

Not applicable.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Manganese (7439-96-5)

EU - Occupational Exposure Limits

Manganese Local name

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0,2 mg/m³ (inhalable fraction) 0,05 mg/m³ (respirable fraction)		
(Year of adoption 2011)		
SCOEL Recommendations		
000)		
Mangan und seine anorganischen Verbindungen		
0,02 mg/m³ (A) 0,2 mg/m³ (E)		
8(II)		
DFG,Y,10		
TRGS900		
Manganês e compostos inorgânicos, expressos em Mn		
0,2 mg/m³		
Norma Portuguesa NP 1796:2014		
Spain - Occupational Exposure Limits		
Manganeso		
0,2 mg/m³ elemental 0,2 mg/m³ Compuestos inorgánicos de Manganeso, como Mn		

8.2. Exposure controls

Materials for protective clothing:

Wear suitable protective clothing.

Skin and body protection:

Skin protection appropriate to the conditions of use should be provided.

Respiratory protection:

Do not exceed the occupational exposure limits (OEL). In case of insufficient ventilation, wear suitable respiratory equipment

Environmental exposure controls:

Do not exceed the occupational exposure limits (OEL).

SECTION 9: Physical and chemical properties 9.1. Information on basic physical and chemical properties

3.1. Illiorillation on basic physical and chem	
Physical state	: Solid
Colour	: dark grey.
Odour	: odourless.
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Log Pow	: No data available
Viscosity, kinematic	: No data available

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Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

None under normal conditions.

10.2. Chemical stability

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

Not applicable.

10.4. Conditions to avoid

None under normal conditions.

10.5. Incompatible materials

Keep away from oxidising agents and strongly alkaline and strongly acidic materials.

10.6. Hazardous decomposition products

Formation of dangerous fumes during use. Welding fumes are classified carcinogen by the IARC (International Agency for Research on Cancer): Group 1. Reasonably expected gaseous products would include carbon oxides, nitrogen oxides and ozone. These hazardous products could include those from the reaction or oxidation of the components listed in section 3 or included in base material. The amount of fumes generated change with the welding parameters and the diameters of the consumable. Refer to applicable national exposure limits for fume compounds and national exposure limits for fumes. In case of work on parts covered by coatings such as: Lubrificants, Solvent, Paint, metalic compounds, Grease, etc... The thermal or photochemical decomposition products of these elements cumulate with the dust and fumes emitted by the melting of the welding product. The solution to adopt must be, in any case, preceeded by a spot study. Refer to the document "Health and Safety in Welding" published by the International Institute of Welding.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified Acute toxicity (dermal) : Not classified Acute toxicity (inhalation) : Not classified Skin corrosion/irritation : Not classified Serious eye damage/irritation : Not classified Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified STOT-single exposure : Not classified STOT-repeated exposure : Not classified Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Acute aquatic toxicity : Not classified Chronic aquatic toxicity : Not classified

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Additional information : 12 01 13 Welding wastes (Q8). 16 01 17 Ferrous metal (Q1). 16 01 18 Non-ferrous metal

(Q1).

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR) : Not applicable
UN-No. (IMDG) : Not applicable
UN-No. (IATA) : Not applicable
UN-No. (ADN) : Not applicable
UN-No. (RID) : Not applicable

14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not applicable
Proper Shipping Name (IMDG) : Not applicable
Proper Shipping Name (IATA) : Not applicable
Proper Shipping Name (ADN) : Not applicable
Proper Shipping Name (RID) : Not applicable

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : Not applicable

IMDG

Transport hazard class(es) (IMDG) : Not applicable

IATA

Transport hazard class(es) (IATA) : Not applicable

ADN

Transport hazard class(es) (ADN) : Not applicable

RID

Transport hazard class(es) (RID) : Not applicable

14.4. Packing group

Packing group (ADR) : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable
Packing group (ADN) : Not applicable
Packing group (RID) : Not applicable

14.5. Environmental hazards

Dangerous for the environment : No Marine pollutant : No

Other information : No supplementary information available

14.6. Special precautions for user

Overland transport

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

Inland waterway transport

Not applicable

Rail transport

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

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SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

Substance(s) are not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC.

15.1.2. National regulations

Germany

Reference to AwSV : Water hazard class (WGK) 1, Slightly hazardous to water (Classification according to

: None of the components are listed

: None of the components are listed

AwSV, Annex 1)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV

: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen : None of the components are listed

SZW-lijst van mutagene stoffen

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen - Borstvoeding

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen - Vruchtbaarheid

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen – Ontwikkeling

: Manganese is listed

: Manganese is listed

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Indication of changes:

1.3. Details of the supplier of the safety data sheet. 1.4. Emergency telephone number. 8.2. Exposure controls.

Abbreviations and acronyms:	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent Bioaccumulative Toxic

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PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
TLM	Median Tolerance Limit
vPvB	Very Persistent and Very Bioaccumulative
Other information	: The product must not be used for any application that is not allowed, in this case we will not be responsible for any damage caused. The user must respect current Safety, Health and Environmental legislation.

Full text of H- and EUH-statements:	
EUH210	Safety data sheet available on request.

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.