

Product name: Magna 77F Page: 1/10

Supersedes date: 2016-12-09 Last revised date: 2020-02-28

Product No.: SDS-ID: GB-EN/1.1

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

1.1. Product identifier

Product name: Magna 77F

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

1.3. Details of the supplier of the safety data sheet

Supplier: EU importer:

Manufacturer: ITW PP & F Korea Limited.

13th FI., Unit B, PAX Tower 609 Eonju-ro, Gangnam-gu Seoul, Korea 06108 Tel:+82-2-2088-3560 Fax:+82-2-513-3567 magna@magnagroup.com

www.magnagroup.com

1.4. Emergency telephone number

Emergency telephone: NHS: 111

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SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

<u>CLP:</u> Carc. 2;H351

Skin Sens. 1;H317 STOT RE 2;H373 Aquatic Acute 1;H400 Aquatic Chronic 1;H410

2.2. Label elements

Solid metals and alloys do not require a hazard label if they do not present a danger to human health or the environment in the form in which they are placed on the market. The information which would have appeared on the label is shown here.



Danger

Contains: Nickel

Silver

H317 May cause an allergic skin reaction.

H351 Suspected of causing cancer.

H372 Causes damage to organs through prolonged or repeated exposure if inhaled.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

P201 Obtain special instructions before use.

P308 + P313 IF exposed or concerned: Get medical advice/attention.

P260 Do not breathe fume.

P280 Wear protective clothing and gloves.
P273 Avoid release to the environment.

2.3. Other hazards

Other: Heating above the melting point releases metallic oxides which may cause metal

fume fever by inhalation. The symptoms are shivering, fever, malaise and

muscular pain.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Only classified substances above threshold limits or substances with an exposure limit are shown. All substances in the product are either registered or exempt from registration under REACH.

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CLP:						
<u>%:</u>	CAS-No.:	EC No.:	REACH Reg. No:	Chemical name:	Hazard classification:	Notes:
45-99	7440-50-8	231-159-6	-	Copper	-	#
0-45	7440-66-6	231-175-3	-	Zinc	-	
0-31	7440-02-0	231-111-4	-	Nickel	Carc. 2;H351 STOT RE 1;H372 Skin Sens. 1;H317	S; 7
0-16	7440-22-4	231-131-3	-	Silver	Aquatic Acute 1;H400 Aquatic Chronic 1;H410	
0-14	7439-96-5	231-105-1	-	Manganese	-	#
0-12	7429-90-5	231-072-3	-	Aluminium	Water-react. 2;H261 Flam. Sol. 1;H228	Т
0-9	7440-31-5	231-141-8	-	Tin	-	#
0-8	7723-14-0	231-768-7	-	Phosphorus	Flam. Sol. 1;H228 Aquatic Chronic 3;H412	
0-6	7439-89-6	231-096-4	-	Iron	-	#
0-4	7440-21-3	231-130-8	-	Silicon	-	#
<0.1	7439-92-1	231-100-4	-	Lead	Repr. 1A;H360FD Lact.;H362	

Notes:

#: The substance has been assigned an exposure limit.

T: If the substance is marketed in a form not having one or more of the physical hazards indicated by the harmonised classification and tests shows that the substance does not exhibit the specific physical hazard(s), it shall be classified in accordance with the result(s) of the test(s).

7: Alloys containing nickel are classified for skin sensitisation, when the release rate of 0,5 µg Ni/cm2/week (EN 1811) is exceeded.

S: May not require a label.

References: The full text for all hazard statements is displayed in section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

<u>Inhalation:</u> Inhalation of welding fumes: Move into fresh air and keep at rest. In case of

persistent throat irritation or coughing: Seek medical attention and bring these

instructions.

Skin contact: Remove contaminated clothes and rinse skin thoroughly with water.

Eye contact: Do not rub eye. If irritation occurs during dust-raising work, flush with plenty of

water for at least 15 minutes.

<u>Ingestion:</u> Not likely, due to the form of the product.

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

<u>Symptoms/effects:</u> See section 11 for more detailed information on health effects and symptoms.

4.3. Indication of any immediate medical attention and special treatment needed

Medical attention/treatments: Treat symptomatically.

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SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media: Use fire-extinguishing media appropriate for surrounding materials.

5.2. Special hazards arising from the substance or mixture

<u>Specific hazards:</u> During fire, gases hazardous to health may be formed.

5.3. Advice for firefighters

Protective equipment for fire- Selection of respiratory protection for fire fighting: follow the general fire

<u>fighters:</u> precautions indicated in the workplace.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

<u>Personal precautions:</u> Follow precautions for safe handling described in this safety data sheet.

6.2. Environmental precautions

Environmental The product should not be dumped in nature but collected and delivered

<u>precautions:</u> according to agreement with the local authorities.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Not relevant.

6.4. Reference to other sections

<u>References:</u> For personal protection, see section 8.

For waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

<u>Safe handling advice:</u> When welding: Do not breathe fumes. Observe good chemical hygiene practices.

<u>Technical measures:</u> No special precautions.

<u>Technical precautions:</u> When welding: Mechanical ventilation may be required.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures for safe No special precautions.

storage:

Storage conditions: Store in closed original container in a dry place.

7.3. Specific end use(s)

Specific use(s): Not relevant.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

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Occupational exposure limits:

CAS-No.:	Chemical name:	As:	Exposure limits:	<u> </u>	Type:	Notes:	References:
7429-90-5	Aluminium metal, respirable dust	-	4	mg/m3	TWA	-	EH40
-	Nickel and water- insoluble nickel inorganic compounds (except nickel tetracarbonyl)	Ni	0.5	mg/m3	TWA	Sk; Carc; Sen	EH40
-	Manganese and its inorganic compounds, inhalable fraction	Mn	0.2	mg/m3	TWA	-	EH40
-	Manganese and its inorganic compounds, respirable fraction	Mn	0.05	mg/m3	TWA	-	EH40
-	Tin compounds, inorganic (except SnH4)	Sn	2	mg/m3	TWA	-	EH40
		-	4	mg/m3	STEL	15min	
-	Iron oxide, fume	Fe	5	mg/m3	TWA	-	EH40
		-	10	mg/m3	STEL	15min	
7439-92-1	Lead and lead compounds other than lead alkyls	Pb	0.15	mg/m3	TWA	-	EH40
7440-22-4	Silver, metallic	-	0.1	mg/m3	TWA	-	EH40
7440-21-3	Silicon, respirable dust	-	4	mg/m3	TWA	-	EH40
7440-21-3	Silicon, inhalable dust	-	10	mg/m3	TWA	-	EH40
7440-50-8	Copper, dusts and mists	Cu	1	mg/m3	TWA	-	EH40
		-	2	mg/m3	STEL	15min	
7440-50-8	Copper, fume	-	0.2	mg/m3	TWA	-	EH40
7429-90-5	Aluminium metal, inhalable dust	-	10	mg/m3	TWA	-	EH40

Notes: Carc: Capable of causing cancer and/or heritable genetic damage.

Sk: Can be absorbed through skin.

Sen: Capable of causing occupational asthma.

EH40: EH40/2005.

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8.2. Exposure controls

Engineering measures: When welding: Provide adequate ventilation. Observe Occupational Exposure

Limits and minimise the risk of inhalation of dust and fumes.

<u>Personal protection:</u> Personal protection equipment should be chosen according to the CEN

standards and in discussion with the supplier of the personal protective

equipment.

When welding: Use special welding equipment for protection of eyes, skin and

respiratory system.

<u>Hygiene measures:</u> Wash hands after handling. Change contaminated clothing.

Environmental Exposure

Not available.

Controls:

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance: Solid rod.

Colour: Metal

Odour: Not available.
Odour threshold: Not available.

PH: Not available.

Melting point / freezing point: 630-1150°C

Boiling point: 2595°C

Flash point: Not available.

Evaporation rate:

Explosive limits

Vapour pressure:

Vapour density:

Relative density:

Not available.

Not available.

Not available.

8.3-8.9

Solubility: Insoluble in water

Partition coefficient (n-

efficient (n- Not available.

octanol/water):

<u>Auto-ignition</u> Not available.

temperature (°C):

<u>Decomposition</u> Not available.

temperature (°C):

<u>Viscosity:</u> Not available. <u>Oxidising properties:</u> Not available.

9.2. Other information

Other data: Not available.

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SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Reactivity: Not reactive.

10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

<u>Hazardous Reactions:</u> Contact with acids liberates very toxic gas.

10.4. Conditions to avoid

Conditions to avoid None known.

10.5. Incompatible materials

<u>Incompatible materials:</u> Avoid contact with acids.

10.6. Hazardous decomposition products

<u>Hazardous decomposition</u> None under normal conditions.

products:

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute Toxicity (Oral):

Acute Toxicity (Dermal):

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

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

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

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

Respiratory or skin

May cause an allergic skin reaction.

sensitisation:

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

<u>Carcinogenicity:</u> Suspected of causing cancer.

Reproductive Toxicity: Based on available data, the classification criteria are not met.

STOT - Single exposure: Based on available data, the classification criteria are not met.

STOT - Repeated exposure: Causes damage to organs through prolonged or repeated exposure if inhaled.

<u>Aspiration hazard:</u> Based on available data, the classification criteria are not met.

Inhalation: Heating above the melting point releases metallic oxides which may cause metal

fume fever by inhalation. The symptoms are shivering, fever, malaise and

muscular pain.

Skin contact: Prolonged or repeated contact may cause irritation.

Eye contact: When welding: Irritating and may cause redness and pain.

<u>Ingestion:</u> Not likely, due to the form of the product.

Specific effects: Prolonged or repeated exposure to welding fumes may cause damage to the

lungs and respiratory system.

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SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity: Not regarded as dangerous for the environment.

12.2. Persistence and degradability

<u>Degradability:</u> The product solely consists of inorganic compounds which are not biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: Harmful to aquatic life with long lasting effects.

12.4. Mobility in soil

Mobility: No data available.

12.5. Results of PBT and vPvB assessment

<u>PBT/vPvB:</u> This product does not contain any PBT or vPvB substances.

12.6. Other adverse effects

Other adverse effects: None known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements. Waste is classified as hazardous waste.

Waste from residues: EWC-code: 12 01 13

SECTION 14: TRANSPORT INFORMATION

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

<u>UN-No:</u> -

14.2. UN proper shipping name

Proper Shipping Name:

14.3. Transport hazard class(es)

<u>Class:</u> -

14.4. Packing group

PG: -

14.5. Environmental hazards

Marine pollutant: -

Environmentally Hazardous

substance:

14.6. Special precautions for user

<u>Special precautions:</u> Not relevant.

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

<u>Transport in bulk:</u> Not relevant.

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SECTION 15: REGULATORY INFORMATION

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

Special provisions: As a general rule, persons under 18 years of age are not allowed to work with

this product. Users must be carefully instructed in the proper work procedure, the dangerous properties of the product and the necessary safety instructions.

National regulation: Regulation (EC) No 1907/2006 of the European Parliament and of the Council of

18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and

2000/21/EC, with amendments.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and

amending Regulation (EC) No 1907/2006 with amendments.

The Control of Substances Hazardous to Health Regulations 2002 (S.I 2002 No.

2677) with amendments.

EH40/2005, Workplace exposure limits 2005, with amendments.

The Management of Health and Safety at Work Regulations 1999 (SI 1999 No.

3242), with amendments.

The List of Wastes (England) (Amendment) Regulations 2005. (SI 2005 No. 895).

15.2. Chemical Safety Assessment

CSA status: No chemical safety assessment has been carried out.

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SECTION 16: OTHER INFORMATION

The user must be instructed in the proper work procedure and be familiar with the contents of these instructions. For restrictions on use see section 15.

The following sections contain revisions or new statements: 1, 3, 9, 11, 12, 14, 15, 16.

Magna Welding Alloys 13th Fl., Unit B, PAX Tower, 609, Eonju-Ro, Gangnam-Gu, Korea 06108

Tel: +82-2-2088-3560 Fax: +82-2-513-3567

Web site: www.magnagroup.com

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<u>Abbreviations and acronyms</u> PBT = Persistent, Bioaccumulative and Toxic. <u>used in the safety data sheet:</u> vPvB = very Persistent and very Bioaccumulative.

Additional information: Classification according to Regulation (EC) No. 1272/2008: Calculation method.

Wording of H-statements:

H228 Flammable solid.

H261 In contact with water releases flammable gases.

H317 May cause an allergic skin reaction.

H351 Suspected of causing cancer.

H360FD May damage fertility. May damage the unborn child.

H360Fd May damage fertility. Suspected of damaging the unborn child.

H362 May cause harm to breast-fed children.

H372 Causes damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects.
 H412
 Harmful to aquatic life with long lasting effects.

The information on this data sheet represents our current data and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.

Made by DHI - Environment and Toxicology, Agern Allé 5, DK-2970 Hørsholm, Denmark. www.dhigroup.com.