

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

1.1. Product identifier

Product form : Mixture
Type of product : Thermal interface material, Fillers, putties, plasters, modelling clay

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

1.2.1. Relevant identified uses

Main use category : Professional use
Use of the substance/mixture : Conductive agents
Fillers
Function or use category : Conductive agents, Fillers

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Premier Farnell plc
150 Armley Road, Leeds, LS12 2QQ
+44 (0) 8701 202530

1.4. Emergency telephone number

+44 1865 407333

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Pyrophoric Solids, Category 1 H250
Substances and Mixtures which, in contact with water, emit flammable gases, Category 2 H261

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Precautionary statements (CLP) : P233 - Keep container tightly closed.
P280 - Wear protective gloves.
P370+P378 - In case of fire: Use carbon dioxide (CO₂) to extinguish.
P402+P404 - Store in a dry place. Store in a closed container.
P501 - Dispose of container to an approved waste disposal plant.

2.3. Other hazards

No additional information available

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]
SILICONE	(CAS-No.) 68083-18-1 (EC-No.) 614-273-4	50- 70	Not classified
ALUMINA	(CAS-No.) 1344-28-1 (EC-No.) 215-691-6	22-30	Not classified
ALUMINIUM POWDER (PYROPHORIC)	(CAS-No.) 7429-90-5 (EC-No.) 231-072-3 (EC Index-No.) 013-001-00-6	8 - 20	Pyr. Sol. 1, H250 Water-react. 2, H261

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Get medical advice/attention if you feel unwell.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Gently wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: immediately flush eyes with running water for at least 15 minutes. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: (If swallowed, rinse mouth with water (only if the person is conscious)). Get medical advice/attention if you feel unwell.

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

Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/effects after inhalation	: Inhalation may cause irritation (cough, short breathing, difficulty in breathing).
Symptoms/effects after skin contact	: Causes mild skin irritation.
Symptoms/effects after eye contact	: mild eye irritation.
Symptoms/effects after ingestion	: May cause irritation to the digestive tract. Ingestion may cause nausea and vomiting.

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 : Use extinguishing media appropriate for surrounding fire.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: No unusual fire or explosion hazards noted.
Explosion hazard	: No direct explosion hazard.
Reactivity in case of fire	: Product is not explosive.

5.3. Advice for firefighters

Firefighting instructions	: Fight fire with normal precautions from a reasonable distance.
Protection during firefighting	: Self-contained breathing apparatus. Wear recommended personal protective
equipment. Other information	: Use water spray to cool exposed surfaces.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid breathing dust, mist or spray.

6.1.1. For non-emergency personnel

Emergency procedures : Avoid contact with skin and eyes.

6.1.2. For emergency responders

Protective equipment : Wear recommended personal protective equipment.

6.2. Environmental precautions

No additional information available

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Shovel or sweep up and put in a closed container for disposal.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Provide local exhaust or general room ventilation. Avoid contact with skin and eyes. Avoid dust formation. Wear personal protective equipment.

Hygiene measures : Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tightly closed.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

ALUMINA (1344-28-1)		
Belgium	Local name	Aluminium (métal et composés insolubles, fraction alvéolaire) # Aluminium (metaal en onoplosbare verbindingen, inadembare fractie)
Belgium	Limit value (mg/m ³)	1 mg/m ³
Belgium	Regulatory reference	Koninklijk besluit/Arrêté royal 02/09/2018
Croatia	Local name	Aluminijev oksid
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	10 mg/m ³ U (ukupna prašina) 4 mg/m ³ R (respirabilna prašina)
Croatia	Regulatory reference	Pravilnik o izmjenama i dopunama Pravilnika o graničnim vrijednostima izloženosti opasnim tvarima pri radu i o biološkim graničnim vrijednostima (NN, br. 75/13)
Denmark	Local name	Aluminiumoxid
Denmark	Grænseværdie (langvarig) (mg/m ³)	5 mg/m ³ beregnet som Al, total 2 mg/m ³ beregnet som Al, respirabel

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ALUMINA (1344-28-1)		
Denmark	Regulatory reference	BEK nr 655 af 31/05/2018
Estonia	Local name	Alumiinium, metalliline ja oksiidid
Estonia	OEL TWA (mg/m ³)	10 mg/m ³ kogu tolm 4 mg/m ³ peentolm
Estonia	Remark (ET)	1 (Peentolm koosneb alla 2,5-mikromeetrise läbimõõduga osakestest, mis võivad jõuda koos sissehingatava õhuga kopsu alveoolidesse)
Estonia	Regulatory reference	Vabariigi Valitsuse 18. septembri 2001. a määruse nr 293 (RT I, 30.11.2011, 5)
France	Local name	Aluminium (Trioxyde de di-)
France	VME (mg/m ³)	10 mg/m ³
France	Note (FR)	Valeurs recommandées/admises
France	Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
Germany	TRGS 910 Acceptable concentration notes	
Greece	Local name	Άλουμίνα, α-
Greece	OEL TWA (mg/m ³)	10 mg/m ³ αναπν. 5 mg/m ³ εισπν.
Greece	Regulatory reference	Π.Δ. 90/1999
Hungary	Local name	DIALUMÍNIUM-TRIOXID (alumínium-oxid, timföld) (Al-ra számítva)
Hungary	AK-érték	6 mg/m ³ respirábilis frakció
Hungary	Regulatory reference	25/2000. (IX. 30.) EüM–SZCSM együttes rendelet a munkahelyek kémiai biztonságáról
Ireland	Local name	Aluminium oxides
Ireland	OEL (8 hours ref) (mg/m ³)	10 mg/m ³ total inhalable dust 4 mg/m ³ respirable dust
Ireland	Regulatory reference	Code of Practice for the Chemical Agents Regulations 2018
Latvia	Local name	Alumīnija oksīds
Latvia	OEL TWA (mg/m ³)	6 mg/m ³ dezintegrācijas aerosola veidā 4 mg/m ³ maisījumā ar niķeli (līdz 15%), (elektrokorunds)
Latvia	Regulatory reference	Ministru kabineta 2007.gada 15.maija noteikumiem Nr.325 (Grozījumi Ministru kabineta 2011.gada 1.februārī noteikumiem Nr.92)
Poland	Local name	Tritlenek glinu
Poland	NDS (mg/m ³)	2.5 mg/m ³ w przeliczeniu na Al: frakcja wdychalna
Poland	NDSch (mg/m ³)	1.2 mg/m ³ w przeliczeniu na Al: frakcja respirabilna
Poland	Remark (PL)	Frakcja wdychalna – frakcja aerozolu wnikażąca przez nos i usta, która po zdeponowaniu w drogach oddechowych stwarza zagrożenie dla zdrowia. Frakcja respirabilna – frakcja aerozolu wnikażąca do dróg oddechowych, która stwarza zagrożenie dla zdrowia po zdeponowaniu w obszarze wymiany gazowej.

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ALUMINA (1344-28-1)		
Poland	Regulatory reference	Dz. U. 2018 poz. 1286
Romania	Local name	Oxid de aluminiu
Romania	OEL TWA (mg/m ³)	2 mg/m ³ (Aerosoli)
Romania	OEL STEL (mg/m ³)	5 mg/m ³ (Aerosoli)
Romania	Regulatory reference	Hotărârea nr. 584/2018
Slovakia	Local name	Oxid hlinitý
Slovakia	NPHV (priemerná) (mg/m ³)	4 mg/m ³ inhalovateľná frakcia – prach 1.5 mg/m ³ respirabilná frakcia – prach
Slovakia	Regulatory reference	Nariadenie vlády č. 33/2018 Z.z.
Spain	Local name	Óxido de aluminio (Corindón)
Spain	VLA-ED (mg/m ³)	10 mg/m ³
Spain	Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2018. INSHT
United Kingdom	Local name	Aluminium oxides
United Kingdom	WEL TWA (mg/m ³)	10 mg/m ³ inhalable dust 4 mg/m ³ respirable dust
United Kingdom	Regulatory reference	EH40/2005 (Third edition, 2018). HSE
Iceland	Local name	Áloxíð, sem Al
Iceland	OEL (8 hours ref) (mg/m ³)	10 mg/m ³
Iceland	Regulatory reference	Reglugerð um mengunarmörk og aðgerðir til að draga úr mengun á vinnustöðum (Nr. 390/2009)
Norway	Local name	Aluminiumoksid
Norway	Grenseverdier (AN) (mg/m ³)	10 mg/m ³
Norway	Merknader (NO)	1) Grenseverdien er fastsatt lik verdien for sjenerende støv
Norway	Regulatory reference	FOR-2018-08-21-1255
Switzerland	Local name	Aluminium oxyde / Aluminiumoxid [Korund]
Switzerland	MAK (mg/m ³)	3 mg/m ³ (a) / (a)
Switzerland	Critical toxicity	Formel / Formal
Switzerland	Notation	B / B
Switzerland	Remark	NIOSH
Switzerland	Regulatory reference	www.suva.ch, 01.11.2018

ALUMINIUM POWDER (PYROPHORIC) (7429-90-5)		
Austria	Local name	Aluminium (als Metall)
Austria	MAK (mg/m ³)	10 mg/m ³
Austria	MAK Short time value (mg/m ³)	20 mg/m ³
Austria	Regulatory reference	BGBI. II Nr. 186/2015
Belgium	Local name	Aluminium # Aluminium

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ALUMINIUM POWDER (PYROPHORIC) (7429-90-5)		
Belgium	Limit value (mg/m ³)	2 mg/m ³ (composés alkylés) (en Al) # Aluminiumalkylen (als Al) 1 mg/m ³ (métal et composés insolubles, fraction alvéolaire) # (metaal en onoplosbare verbindingen, inadembare fractie)
Belgium	Regulatory reference	Koninklijk besluit/Arrêté royal 02/09/2018
Bulgaria	Local name	Алуминий
Bulgaria	OEL TWA (mg/m ³)	1.5 mg/m ³ (Респирабилна фракция) 10 mg/m ³ (метален прах и оксиди) 2 mg/m ³ (неорганични разтворими съединения (като алуминий)) 2 mg/m ³ (неорганични разтворими съединения; като алуминий)
Bulgaria	Regulatory reference	Наредба № 13 от 30.12.2003 г. за защита на работещите от рискове, свързани с експозиция на химични агенти при работа (изм. и доп. ДВ. бр.73 от 4 септември 2018 г.)
Croatia	Local name	Aluminij
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	10 mg/m ³ U (ukupna prašina) 4 mg/m ³ R (respirabilna prašina)
Croatia	Regulatory reference	Pravilnik o izmjenama i dopunama Pravilnika o graničnim vrijednostima izloženosti opasnim tvarima pri radu i o biološkim graničnim vrijednostima (NN, br. 75/13)
Denmark	Local name	Aluminium, pulver og støv
Denmark	Grænseværdie (langvarig) (mg/m ³)	5 mg/m ³ total
Denmark	Regulatory reference	BEK nr 655 af 31/05/2018
Estonia	Local name	Alumiinium, metalliline jaoksiidid
Estonia	OEL TWA (mg/m ³)	10 mg/m ³ kogu tolm 4 mg/m ³ peentolm
Estonia	Remark (ET)	1 (Peentolm koosneb alla 2,5-mikromeetrise läbimõõduga osakestest, mis võivad jõuda koos sissehingatava õhuga kopsu alveoolidesse)
Estonia	Regulatory reference	Vabariigi Valitsuse 18. septembri 2001. a määruse nr 293 (RT I, 30.11.2011, 5)
France	Local name	Aluminium
France	VME (mg/m ³)	10 mg/m ³ (métal) 5 mg/m ³ (pulvérulent)
France	Note (FR)	Valeurs recommandées/admises
France	Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
Germany	TRGS 910 Acceptable concentration notes	
Greece	Local name	Αργίλιο μεταλλικό & οξειδίο του αργιλίου
Greece	OEL TWA (mg/m ³)	10 mg/m ³ αναπν. 5 mg/m ³ εισπν.

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ALUMINIUM POWDER (PYROPHORIC) (7429-90-5)		
Greece	Regulatory reference	Π.Δ. 90/1999
Hungary	Local name	ALUMÍNIUM, FÉM
Hungary	AK-érték	6 mg/m ³ respirábilis frakció
Hungary	Regulatory reference	25/2000. (IX. 30.) EüM–SZCSM együttes rendelet a munkahelyek kémiai biztonságáról
Ireland	Local name	Aluminium metal
Ireland	OEL (8 hours ref) (mg/m ³)	1 mg/m ³ R (Respirable Fraction)
Ireland	Regulatory reference	Code of Practice for the Chemical Agents Regulations 2018
Latvia	Local name	Alumīnijs un tā sakausējumi (pēc alumīnija)
Latvia	OEL TWA (mg/m ³)	2 mg/m ³
Latvia	Regulatory reference	Ministru kabineta 2007.gada 15.maija noteikumiem Nr.325 (Grozījumi Ministru kabineta 2011.gada 1.februārī noteikumiem Nr.92)
Poland	Local name	Glin metaliczny, glin proszek (niestabilizowany)
Poland	NDS (mg/m ³)	2.5 mg/m ³ frakcja wdychalna 1.2 mg/m ³ frakcja respirabilna
Poland	Remark (PL)	Frakcja wdychalna – frakcja aerozolu wnikaąca przez nos i usta, która po zdeponowaniu w drogach oddechowych stwarza zagrożenie dla zdrowia. Frakcja respirabilna – frakcja aerozolu wnikaąca do dróg oddechowych, która stwarza zagrożenie dla zdrowia po zdeponowaniu w obszarze wymiany gazowej.
Poland	Regulatory reference	Dz. U. 2018 poz. 1286
Portugal	Local name	Alumínio e compostos insolúveis, expresso em Al
Portugal	OEL TWA (mg/m ³)	1 mg/m ³ R (Fração respirável)
Slovakia	Regulatory reference	Norma Portuguesa NP 1796:2014
Slovakia	Local name	Hliník kovový
Slovakia	NPHV (priemerná) (mg/m ³)	4 mg/m ³ inhalovateľná frakcia – prach 1.5 mg/m ³ respirabilná frakcia – prach
Slovakia	Regulatory reference	Nariadenie vlády č. 33/2018 Z.z.
Spain	Local name	Aluminio
Spain	VLA-ED (mg/m ³)	10 mg/m ³ Metal en polvo 2 mg/m ³ Alquilos, como Al 5 mg/m ³ Humos de soldadura, como Al 5 mg/m ³ Polvos de aluminotermia, como Al
Spain	Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2018. INSHT
Sweden	Local name	Aluminium, lösliga föreningar (som Al)
Sweden	nivågränsvärde (NVG) (mg/m ³)	1 mg/m ³ totaldamm

ALUMINIUM POWDER (PYROPHORIC) (7429-90-5)		
Sweden	Anmärkning (SE)	3 (Med totaldamm menas de partiklar (aerosoler) som fastnar på ett filter i den provtagare som beskrivs i Metodserien, Provtagning av totaldamm och respirabelt damm, Metod nr 1010, Arbetarskyddsstyrelsen, numera Arbetsmiljöverket. Filterdiametern är normalt 37 mm, men kan även vara 25 mm. Trots sitt namn provtas inte den totala mängden luftburna partiklar med denna metod)
Sweden	Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
United Kingdom	Local name	Aluminium
United Kingdom	WEL TWA (mg/m ³)	2 mg/m ³ alkyl compounds 2 mg/m ³ salts, soluble 10 mg/m ³ metal, inhalable dust 4 mg/m ³ metal, respirable dust
United Kingdom	Regulatory reference	EH40/2005 (Third edition, 2018). HSE
Iceland	Local name	Ál, duft og ryk, sjá einnig kerskálaryk
Iceland	OEL (8 hours ref) (mg/m ³)	10 mg/m ³
Iceland	OEL (15 min ref) (mg/m ³)	5 mg/m ³
Iceland	Regulatory reference	Reglugerð um mengunarmörk og aðgerðir til að draga úr mengun á vinnustöðum (Nr. 390/2009)
Norway	Local name	Aluminiumpulver (pyroteknikk)
Norway	Grenseverdier (AN) (mg/m ³)	5 mg/m ³
Norway	Regulatory reference	FOR-2018-08-21-1255
Switzerland	Local name	Aluminium métal / Aluminium (Metall)
Switzerland	MAK (mg/m ³)	3 mg/m ³ (a) / (a)
Switzerland	Critical toxicity	Formel / Formal
Switzerland	Notation	B / B
Switzerland	Remark	NIOSH
Switzerland	Regulatory reference	www.suva.ch, 01.11.2018

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Personal protective equipment:

Protective clothing. Safety glasses. Gloves.

Hand protection:

In case of repeated or prolonged contact wear gloves

Eye protection:

Chemical goggles or safety glasses

Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection.

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Colour	: Green.
Odour	: No data available
Odour threshold	: No data available
pH	: 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
Density	: 3.3
Solubility	: Insoluble. Water: < 0.1 %
Log Pow	: No data available
Viscosity, kinematic	: No data available
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

No additional information available

10.2. Chemical stability

No additional information available

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

No additional information available

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

ALUMINIUM POWDER (PYROPHORIC) (7429-90-5)	
LD50 oral rat	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 888 mg/l/4h

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

ALUMINA (1344-28-1)	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

ALUMINA (1344-28-1)	
Bioaccumulative potential	No bioaccumulation data 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

SECTION 13: Disposal considerations

13.1. Waste treatment methods

No additional information available

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.2. UN proper shipping name				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available				

14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

Inland waterway transport

Not regulated

Rail transport

Not regulated

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

Not applicable

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) 3, Highly hazardous to water
(Classification according to AwSV, Annex 1)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

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

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

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of H- and EUH-statements:	
Pyr. Sol. 1	Pyrophoric Solids, Category 1
Water-react. 2	Substances and Mixtures which, in contact with water, emit flammable gases, Category 2
H250	Catches fire spontaneously if exposed to air.
H261	In contact with water releases flammable gases.

Part Number
MP-TG-A4500-150-0.5
MP-TG-A4500-150-1.0
MP-TG-A4500-150-1.5
MP-TG-A4500-150-2.0
MP-TG-A4500-150-3.0

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