

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

1.1. Product identifier

Product form : Mixture
Trade name : one shot crucible T3.M
EC no : 231-072-3
CAS No : 7429-90-5
Product group : Metal can version

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Aluminium thermally welding technology
Only for welding rails

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier

Railtech Deutschland
Rolf Plötz GmbH & Co. KG
Alte Wiesenstraße 12
51580 Reichshof - Germany
T 02261-91348-0 - F 02261-91348-9
info@railtech-deutschland.com

Email competent person

sds@kft.de

1.4. Emergency telephone number

Emergency number : National Poison Information Service (NPIS)
24 hour national number professionals only
0844 892 0111

National Health Service (NHS)
24 hour national number consumer
England and Scotland: 111
Wales: 0845 46 47
Northern Ireland: call your local General Practitioner

Call 999 if there is a life-threatening incident.

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

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

No labelling applicable

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Comments : Metal can version

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according to Regulation (EC) No. 1907/2006 (REACH)

Metal can with refractory lining of quartz sand coated with phenol resin, inside a loose filling including iron oxide and granules of steel, aluminium and ferro-alloys

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
aluminium powder (stabilised) substance with national workplace exposure limit(s) (GB) (Note T)	(CAS No) 7429-90-5 (EC no) 231-072-3 (EC index no) 013-002-00-1 (REACH-no) 01-2119529243-45	10 - 20	Not classified
Quartz (SiO ₂)	(CAS No) 14808-60-7 (EC no) 238-878-4	5 - 10	Not classified

Note T : This substance may be marketed in a form which does not have the physical hazards as indicated by the classification in the entry in Part 3. If the results of the relevant method or methods in accordance with Part 2 of Annex I of this Regulation show that the specific form of substance marketed does not exhibit this physical property or these physical hazards, the substance shall be classified in accordance with the result or results of this test or these tests. Relevant information, including reference to the relevant test method(s) shall be included in the safety data sheet.

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : In all cases of doubt, or when symptoms persist, seek medical attention.
- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Fresh air, rest. If symptoms persist, call a physician.
- First-aid measures after skin contact : Under normal conditions of use not required. Wash skin with plenty of water.
- First-aid measures after eye contact : Rinse eyes with water as a precaution. If symptoms persist, call a physician.
- First-aid measures after ingestion : If symptoms persist, call a physician.

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

- Symptoms/injuries : No additional information available.

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 sand.
- Unsuitable extinguishing media : Water.

5.2. Special hazards arising from the substance or mixture

- Hazardous decomposition products in case of fire : Toxic fumes may be released. Carbon dioxide (CO₂). Carbon monoxide. Metal oxides. irritating gases. irritating vapours. Ammonia. Phenol.

5.3. Advice for firefighters

- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
- Other information : Do not allow run-off from fire fighting to enter drains or water courses. Dispose of in accordance with relevant local regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- Protective equipment : Wear personal protective equipment.
- Emergency procedures : Ventilate spillage area.
- Measures in case of dust release : Avoid dust formation. Do not breathe dust.

6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment. Do not allow into drains or water courses. Avoid sub-soil penetration.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Mechanically recover the product. Do not flush with water. Avoid dust formation.
- Other information : Dispose of materials or solid residues at an authorized site. Avoid dust formation.

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6.4. Reference to other sections

For further information refer to section 13. See Heading 8. See Heading 7.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Precautionary measures fire. Keep away from sources of ignition - No smoking.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Store tightly closed in a dry and cool place.
Storage temperature : -20 - 30 °C
Information about storage in one common storage facility : Store away from. Flammable or combustible materials.
Storage area : Store in a well-ventilated place.

7.3. Specific end use(s)

No supplementary information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

one shot crucible T3.M (7429-90-5)		
United Kingdom	Local name	Aluminium metal
United Kingdom	WEL TWA (mg/m ³)	10 mg/m ³ inhalable dust 4 mg/m ³ respirable dust
aluminium powder (stabilised) (7429-90-5)		
United Kingdom	Local name	Aluminium metal
United Kingdom	WEL TWA (mg/m ³)	10 mg/m ³ inhalable dust 4 mg/m ³ respirable dust

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Hand protection:

Heat resistant gloves

Eye protection:

Chemical goggles

Skin and body protection:

Wear suitable protective clothing. safety foot-wear. Wear fire/flamm resistant/retardant clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. Short term exposure. Filter type: P2

Other information:

Do not eat, drink or smoke when using this product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid
Appearance : Loose filling of metal granules inside a fireproofed crucible, surrounded by a metal can.
Colour : Grey.
Odour : characteristic.
Odour threshold : No data available
pH : Not applicable
Relative evaporation rate (butylacetate=1) : No data available
Melting point : > 1200 °C
Freezing point : Not applicable
Boiling point : No data available
Flash point : Not applicable

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Auto-ignition temperature	: Not self-igniting
Decomposition temperature	: > 1200 °C
Flammability (solid, gas)	: Not determined
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: Not applicable
Solubility	: Insoluble.
Log Pow	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: No data available
Explosive properties	: Product is not explosive.
Oxidising properties	: No data available
Explosive limits	: Not applicable

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available.

10.2. Chemical stability

To avoid thermal decomposition, do not overheat. No decomposition if stored normally. Decomposition starting from 1200°C.

10.3. Possibility of hazardous reactions

In contact with water releases flammable gases. React in contact of acids.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

Water, humidity. Halogenated compounds. acids and bases. oxidising substances.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified (Based on available data, the classification criteria are not met)

aluminium powder (stabilised) (7429-90-5)	
LD50 oral rat	> 15900 mg/kg OECD 401
LC50 inhalation rat (mg/l)	> 0.88 mg/l/4h OECD 403

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)
pH: Not applicable

Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met)
pH: Not applicable

Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met)

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)

Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)

Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)

Specific target organ toxicity (single exposure) : Not classified (Based on available data, the classification criteria are not met)

Specific target organ toxicity (repeated exposure) : Not classified (Based on available data, the classification criteria are not met)

Aspiration hazard : Not classified (Not specifically applicable)

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

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12.2. Persistence and degradability

one shot crucible T3.M (7429-90-5)

Persistence and degradability : No additional information available.

12.3. Bioaccumulative potential

one shot crucible T3.M (7429-90-5)

Bioaccumulative potential : No additional information available.

12.4. Mobility in soil

one shot crucible T3.M (7429-90-5)

Ecology - 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

Regional legislation (waste) : Disposal must be done according to official regulations. European waste catalogue.
European List of Waste (LoW) code : 10 09 08 - casting cores and moulds which have undergone pouring other than those mentioned in 10 09 07

SECTION 14: Transport information

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

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

14.6. Special precautions for user

Special transport precautions : No naked flames, Do not store together with igniters, Not regulated for transport

- 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

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes:

No change required according to maintenance check.

Abbreviations and acronyms:

ADR	Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
IMDG	International Maritime Code for Dangerous Goods
IATA	International Air Transport Association
GHS	Globally Harmonised System of Classification and Labelling of Chemicals
	CAS (Chemical Abstracts Service) number
LC50	Median lethal concentration
LD50	Median lethal dose
PBT	Persistent Bioaccumulative Toxic
vPvB	Very Persistent and Very Bioaccumulative

Data sources : Information provided by the manufacturer.

KFT SDS EU

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