

Safety Data Sheet

According to regulation (EG) Nr. 1907/2006

1. IDENTIFICATION OF PREPARATION AND COMPANY DETAILS:

Commercial Product Name:	Rematitan® CL Pulver
Company:	CADdent GmbH Laser- und Fräszentrum Augsburg Max-Josef-Metzger-Straße 20 86154 Augsburg Telephone: +49 (0)821.599 99 65 -0 Telefax: +49 (0)821.599 99 65 -44 E-Mail: augsburg@caddent.eu


2. COMPOSITION/INFORMATION ON INGREDIENTS:

Mixtures

Dangerous Ingredients:

EG-Nr.	Designation	Anteil
CAS Nr.	Classification	
Index Nr.	GHS Classification	
REACH Nr.		
231-142-3	Titan	80-95%
7440-32-6		
231-072-3	Aluminum powder (non-stabilized)	5-10 %
7429-90-5	F R15-17	
013-001-00-6	Water-react. 2, Pyr. Sol. 1; H261 H250	
231-171-1	Vanadium	3-8 %
7440-62-2	F, Xi R17-36/37/38	
	Pyr. Sol. 1, Eye Irrit. 2, STOT SE 3, Skin Irrit. 2; H250 H319 H335 H315	

3. POTENTIAL HAZARDS:

Classification of the substance or mixture	Hazard designation: highly flammable R-phrases: highly flammable	
Marking element	Hazard designation: F - highly flammable	
R-phrases	11 – highly flammable	
S-phrases	07 – Keep container tightly closed 16 – Keep away from sources of ignition. - No smoking! 33 – Take precautionary measures against static discharges. 43 – In case of fire, use fire extinguishers of classification D.	

4. FIRST AID:

General information:	Change contaminated clothing.
After inhalation:	Provide for fresh air. Seek medical advice/seek medical attention.
After skin contact:	After contact with skin wash immediately with: water, soap. Seek medical advice/seek medical attention.
After eye contact:	Rinse your eye immediately carefully and thoroughly with eye bath or water. Seek medical advice/seek medical attention.
After swallowing:	After swallowing immediately drink plenty of: water. Seek medical advice/seek medical attention.

5. FIREFIGHTING

Suitable extinguishing:	In case of fire, use fire extinguishers of classification D. Use dry sand. Do not use water.
Unsuitable extinguishing:	Water, carbon dioxide (CO ₂) or foam
Special hazards arising from the substance or mixture:	Flammable. Vapours may form explosive mixtures with air. In contact with water releases flammable gases.
Advice for firefighting	In case of fire: Utilize self-contained breathing apparatus. Wear full protective suit.

6. ACCIDENTAL RELEASE MEASURES:

Person-related precautions protective equipment and emergency measures:	Eliminate all sources. Respiratory protection is required during: cleaning. Do not inhale dust. Avoid formation of dust.
Environmental protection measures:	Make sure that the material cannot leak into the sewage system or waters. Explosion hazard.
Methods and material for containment and cleaning up:	Pick up mechanically. Treat recovered material as prescribed in disposal considerations. Avoid formation of dust.

7. HANDLING AND STORAGE:

	Precautions for safe handling
Hints for secure handling:	Take precautionary measures against static discharges. Avoid formation of dust. Do not inhale dust.
Precautions against fire and explosion:	Keep away from sources of ignition. - No smoking! Risk of dust explosion.
Further information on handling:	Do not eat, drink or smoke while working.

Conditions for safe storage, including any incompatibilities:

Storerooms and receptacles:	Keep container tightly closed and dry and in a cool, well-ventilated place. Keep away from sources of ignition. – No smoking!
Storage:	Do not store with: Material, oxygen-rich, oxidizing, substances liable to spontaneous combustion. Keep away from food, drink and animal feedingstuffs. Devices for local extraction.

8. EXPOSURE LIMITATION AND PERSONAL PROTECTIVE EQUIPMENT:

Control parameters:

Biological limit values: (TRGS)

CS Nr.	Designation	Parameter	Limit value	Test material	Time of sampling
7429-90-5	Aluminum	Aluminum	200µg/l	U	b

Protective and hygienic measures:	Change contaminated clothing. Wash hands before breaks and at the end of work. Do not eat or drink while working. Avoid contact with skin.
Hand protection:	Wear suitable gloves. NBR (nitrile rubber).
Eye protection:	Wear protective glasses and goggles/face mask during work.
Respiratory protection:	Wear a suitable breathing protection.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Information on basic physical and chemical properties:

Form:	powder
Color:	silver grey
Odor:	odorless

Change of the status:

Density (bei 20°):	4,5 g/cm ³
Water solubility:	insoluble
Melting temperature:	1670 °C
Boiling point:	>3260 °C
Ignition temperature:	300-450

10. STABILITY AND REACTIVITY:

Conditions to avoid

Protect against heat. Ignition hazard. Take precautionary measures against static discharges.

Incompatible materials:

Flammable substance, acid, oxidizing agent, halogenated hydrocarbons, alkalis (caustic)

Hazardous decomposition products:

	Hydrogen
Further information:	Thermal decomposition: Danger of dust explosion with air

11. TOXICOLOGICAL INFORMATION:

	Information on toxicological effects
Other information about examination:	The classification was carried out according to the calculation method by the Preparations Directive (1999/45EG). Frequent or prolonged skin contact may degrease skin and may lead to inflammation (dermatitis).
General comments:	Protracted eye contact may cause irritation. Inhalation of dust may cause irritation to the airways. After swallowing: nausea, vomiting.


12. ECOLOGICAL INFORMATION:

Further indications:	No particular worth mentioning hazards. The classification was carried out according to the calculation method by the Preparations Directive (1999/45/EG).
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13. DISPOSAL INSTRUCTIONS:

Recommendation:	Do not empty into drains. Dispose of this material and its container to hazardous or special waste collection point.
Disposal of uncleaned packings and recommended cleaning agents:	Dispose according to the official regulations.


14. TRANSPORT INFORMATION:

Land transport (ADR/RID)	
UN number	3089
UN proper shipping name:	Flammable metal powder, N.O.S.
Transport hazard class:	4.1
Packing group:	II
Danger label:	4.1. 
Classification code:	F3
Special provisions:	552
Limited quantities (LQ):	1 kg
Transport category:	2
Hazard number:	40
Tunnel restriction code:	E

Other relevant information about land transport:

Limited quantities:	E2
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Sea transport

UN Nummer:	3089
UN proper shipping name:	Metal Powder, Flammable, N.O.S.
Transport hazard class:	4.1
Packing group:	II
Danger label:	4.1 
Special provisions:	-
Limited quantities (LQ):	1 kg
EmS	F-G, S-G

Other relevant information about sea transport:

Limited quantities:	E2
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Air transport

UN/ID number	3089
UN proper shipping name:	Metal Powder, Flammable, N.O.S.
Transport hazard class:	4.1
Packing group:	II
Danger label:	4.1 
Special provisions:	A3
Limited quantities (LQ) Passenger	5 kg
IATA-Packing instructions – Passenger	445
IATA-Maximum quantity – Passenger	15 kg
IATA- Packing instructions - Cargo	448
IATA- Maximum quantity – Cargo	50 kg

Other relevant information about air transport:

Limited quantities:	E2
Passenger-LQ:	Y441

15. LEGAL PROVISIONS:

Safety, health and environmental regulations/specific regulations for the substance

National provisions:

Water hazard classification:	Not water endangering
Status	Mixing rules according to VwVwS Annex 4, Nr. 3

16. OTHER INFORMATION:

Complete text which is written down in the chapter of the R-phrases

11	Highly flammable
15	Contact with water liberates extremely flammable gases.
17	Spontaneously flammable in air
36/37/38	Irritating to eyes, respiratory system and skin

Complete text of hazard warnings in section 2 and 3

H250	Spontaneous ignition in contact with air.
H261	In contact with water releases flammable gases.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory system irritation.