e info@cinkarna.si

w www.cinkarna.si

t 00386 (0)3 427 60 00 f 00386 (0)3 427 62 92



After Ingestion:

SAFETY DATA SHEET	Page 1 of 7
CATELL BATTACHEEL	Issued on: 28.08.2008
Trade name: ZINC CUBES - ANODES 25x24,3	Revised on: 10.07.2018
	Revised version No.: 1

1.1.	Product identifier (Product registration number):		ZINC CUBES - ANODES 25x24,3				
1.2.	Relevant identified uses of the substance/ mixture and uses advised against:		Zinc coating by galvanizing				
1.3.	Details of the supplier of the distributor):	safety (data she	et (manufacturer, i	nporter, only	/ representative	, downstream user,
1.3.1.	Supplier name:		CINKAF	RNA CELJE, d.d.			PE METALURGIJA
1.3.2.	Supplier address and telephon	e:	Kidričev	/a 26, 3001 Celje - S	lovenija, +380	3 427 6000	
1.3.3.	E-mail (competent person) :		metalur	gija.tajnistvo@cinka	na.si		
1.4.	Emergency phone number :		In the case of health hazard, consult a private or a doctor on duty in the event of life-threatening, call the telephone number 112. Additional information is available: on weekdays from 7-15 pm on telephone number +386 (0) 3 427 6310				
2. Ha	azards identification						
2.1.	Classification of substance or mixture:		Alloy does not fall as dangerous.				
Refere	ence to Chapter 16	·					
2.2.	Label elements:		There is no need to mark the product in accordance with the EC directive.				
2.3.	Other hazards:		Not known.				
3. Co	omposition / informatio	n on i	ingred	ients			
3.1.	Mixture						
Chemi	cal name	CAS n.		Registration n.	Conc.	(Regulation (E	C) No 1272/2008 (CLP)
		EC n. Index		REACH	(wt/vol/ max. conc. %)	Hazard statements (H)	Hazard class and hazard category
Refere	ence to Chapter 16						
4. Fi	rst aid measures						
4.1.	Description of first aid meas	ures	If there is an inhalation of zinc oxides or dust, or burns due to contact with melt.				
	After inhalation:		Take af	fected persons into f	resh air and s	eek medical ass	istance.
	After skin contact:		Burns on the skin, wash for a long time with running water, and in case of major burns, call for medical attention.				
		Flush with plenty of water, seek medical attention.					

In case of nausea, inhale fresh air, seek medical attention if necessary.

Cinka	rna Celje, SAFETY DATA SHEET		Page 2 of 7	
Trade	e name: ZINC CUBES - ANODES 25x2	4,3		
4.2.	Most important symptoms and effects, acute and delayed:	Nausea, burns.		
1.3	Indication of any immediate medical attention and special treatment needed:	Not required.		
5. Fii	re-fighting measures			
5.1.	Extinguishing media			
	Appropriate extinguishing media:	Extinguishing agents of group D, sand		
	Inappropriate extinguishing media:	Water, CO2		
5.2.	Specific hazards arising from the substance or mixture:			
	Hazardous combustion products:	Zinc oxide.		
5.3.	Advice for firefighters:	In case of fire, use: Protective eye and respiratory mask, protective h clothing, fireproof shoes, fireproof gloves.	elmet, fireproof	
6. Accidental release measures				
6.1.	Personal precautions protective equipment and emergency procedures			
5.1.1.	For non-emergency persons:	Not required.		
5.1.2.	For emergency persons:	Not required.		
6.2.	Environmental precautions	Not required.		
6.3.	Methods and material for containment and cleaning			
6.3.1	Appropriate spillage retaining techniques (fencing, covering drains, retaining procedures):	Not required.		
6.3.2.	Appropriate cleaning procedures			
	Neutralization techniques:	Not required.		
	Decontamination techniques:	Not required.		
	Absorbent materials:	Not required.		
	Cleaning techniques:	Not required.		
	Sucking techniques:	Not required.		
	Required equipment for retaining / cleaning:	Not required.		
5.3.3.	Inappropriate retaining or cleaning techniques:	Not required.		
6.4.	Reference to other sections:	Not required.		
7. Ha	andling and storage			
7.1.	Precautions for safe handling			
7.1.1.	Recommendations shall be specified to:	At work, pay special attention to the sharp edges of individual cubes in an open package.		

Cinkarna Celje, SAFETY DATA SHEET	Page 3 of 7
Trade name: ZINC CUBES - ANODES 25x24,3	

8.1.	Control parameters	
8. Ex	posure control / personal p	rotection
7.3.	Specific end use(s):	Not required.
	- packaging compatibility:	Not required.
	- quantity limitations regarding storage conditions:	Not required.
	 specific designs for storage rooms or vessels (including retention walls and ventilation): 	Not required.
	- prevention specifications:	Store in dry and ventilated areas.
	Other advice including:	
	- antioxidants:	Not required.
	- stabilisers:	Not required.
	Securing integrity of substance or mixture by use of:	
	- vibrations:	Not required.
	- humidity:	Store in dry and ventilated areas.
	- sunlight:	Not required.
	- temperature:	Not required.
	- ambient pressure:	Not required.
	- weather conditions:	Store in dry and ventilated areas.
	How to control the effects of:	
	- potential ignition sources:	Not required.
	- evaporation substances:	Not required.
	- incompatible substances or mixtures:	Not required.
	- corrosive substances:	Do not store with corrosive substances.
	- explosive atmospheres	Not required.
	Management of risks associated with:	
7.2.	Conditions for safe storage, including any incompatibilities	
7.1.2.	General working hygiene (prohibited eating, drinking and smoking within working area; washing hands, etc.):	It is forbidden to eat food and drink, and smoking at work. Wash hands after work.
	Reduce the release of the substance or mixture to the environment:	Not required.
	Prevent handling of incompatible substances or mixtures:	Not required.
	Safe handling of substance or mixture:	Use protective gloves and clothing.

Cinkarna Celje, SAFETY DATA SHEET	Page 4 of 7
Trade name: ZINC CUBES - ANODES 25x24,3	

riade	7 Harris: 200		
8.1.1.	Limit values (LV):	No data.	
Refere	ence to Chapter 16		
	DNEL	No data.	
	PNEC	No data.	
8.2.	Exposure control		
8.2.1.	Appropriate technical and engineering controls:	General technical precautions for the use of zinc anodes in production	n.
8.2.2.	Personal protective equipment:	Personal protective equipment.	
	- respiratory protection:	Ventilation of the room in which the process of galvanic protection tal	kes place.
	- skin protection:	Protective suit SIST EN ISO 13688: 2013, protective shoes SIST EN	ISO 20345: 2012
	- hand protection:	Protective gloves non-cut SIST EN 388: 2016, protection level 4 or 5.	
	- eye/ face protection:	Protective goggles or shield EN 166: 2002	
	- heat radiation protection:	Protective gloves non-cut SIST EN 388: 2016, protection level 4 or 5.	
	Other:	Not required.	
8.2.3.	Environment exposure control	Not required.	
9. Pr	ysical and chemical proper	ties	
9.1.	Information on basic physical and chemical properties		
	- appearance:	Metal cubes, silver color.	

9.1.	Information on basic physical and chemical properties	
	- appearance:	Metal cubes, silver color.
	- colour:	Silver.
	- odour:	Odorless.
	- pH:	Not required.
	- melting/ freezing point:	419°C
	- boiling point and boiling range:	906 °C
	- flash point:	Not required.
	- vaporization rate:	Not required.
	- flammability (solid, gas):	Not required.
	- upper /lower flammability or explosive limit:	Not required.
	- vapour pressure:	1,33hPa at 487°C
	- vapour density:	Not required.
	- relative density:	7,2g/cm3
	- solubility:	Insoluble.
	- partition coefficient: n- octanol/water	Not required.
	- spontaneous combustion temperature:	No auto-ignition occurs.

Cinka	ırna Celje, SAFETY DATA SHEET		Page 5 of 7		
Trade	e name: ZINC CUBES - ANODES 25x2	24,3			
	- decomposition temperature:	Not required.			
	- viscosity:	Not required.			
	- explosion properties:	Not required.			
	- oxidation properties:	Not required.			
9.2.	Other information	Not required.			
10. S	tability and reactivity				
10.1.	Reactivity:	It is stable, the dangerous reaction can come in contact with acid or a	ılkalis.		
10.2.	Chemical stability:	Existing under normal conditions. It creates "white corrosion" in moist	air.		
10.3.	Possible hazardous reactions:	Zinc powder, in contact with oxygen and water liberates hydrogen ga	S.		
10.4.	Conditions to avoid:	Not known.			
10.5.	Incompatible materials:	Oxidizing agents such as, for example, ammonium nitrate, nitric acid, acids and water.	Oxidizing agents such as, for example, ammonium nitrate, nitric acid, sodium chlorate, acids and water.		
10.6.	Hazardous decomposition products:	Zinc powder, in contact with oxygen and water liberates hydrogen gas.			
11. T	I1. Toxicological data				
11.1	Information on toxicological effects	Not toxic.			
Refere	nce to Chapter 16				
	- acute toxicity:	Not toxic.			
	- skin corrosion /irritation:	Not corrosive.			
	- serious eye damage/ irritation:	Not known.			
	- respiratory or skin sensitisation:	Not known.			
	- germ cell mutagenicity:	Not known.			
	- Carcinogenicity:	Not known.			
	- toxicity for reproduction:	Not known.			
	- STOT ? single exposure:	Not known.			
	- STOT ? repeated exposure:	Not known.			
	- Inhalation hazards:	Not known.			
12. E	cological information				
12.1.	Toxicity:	Not toxic.			
12.2.	Persistence and degradability:	No data.			
12.3.	Accumulation in organisms:	No data.			
12.4.	Mobility in soil:	For zinc (as for other metals) transport and distribution across differed compartments, such as, for example, water (molten particles, particulate matter associated with floating substances), earth (particles particles, particles in the water in the soil,) described and measure coefficients of metal partitions between these different particles. In the partition coefficient in zinc was used in land of 158.5 I / kg (recorded value 2.2) (CSR for zinc 2010).	es bound to earth d by		

Cinkarna Celje, SAFETY DATA SHEET Page 6 of 7				
Trade na	ame: ZINC CUBES - ANODES 25x24	4,3		
	BT and vPvB assessment esults:	Not in accordance with the requirements for PBTs and vPvBs.		
2.6. O 1	ther adversative effects:	No data.		
Reference	e to Chapter 16			
I3. Dis	posal considerations			
3.1. W	3.1. Waste treatment methods: Zinc is fully recyclable by melting in the production process.			
I4. Tra	nsport information			
	DR, RID, ADN, IMDG, ICAO- I/IATA-DGR	Not required.		
4.1. UI	N number:			
	N proper shipping name echnical name if required):	Product is not under ADR regulations.		
4.3. Tr	ransport hazard class:	Not necessary		
4.4. Pa	ackaging group:	Not necessary		
4.5. H a	azard to environment:	Not dangerous for the environment.		
4.6. S	pecial precautions for user:	Not required.		
	ulk transport by MARPOL 73/78 nnex II and IBC Code:	Not required.		
4.8. T u	unnel code:	Not necessary		
4.9. CI	lassification code:	Not required.		
4.10. H a	azard label:	Not required.		
I5. Reg	gulatory information			
he ha	ules and regulations regarding ealth, safety and environmental azard specific to the substance r mixture:	For the substance: Directive 2006/11 / EC 2000/479 / EC EC 166/2006 86/278 / EEC REACH Regulation; Chemicals act; Rules on classification, packagin dangerous substances; Health and safety at work act; Rules on persequipment; Rules on the protection of workers from the risks related chemical agents at work; Rules on the requirements for ensuring the of workers at workplaces; List of harmonized standards whose application presumption of compliance of the product with the requirements	onal protective to exposure to safety and health	
5.2. CI	hemical safety assessment:	Not required.		
l6. Oth	ner information			
	mendments made in the revised dition:	According to the CPL regulation.		
sta sta	st of relevant R phrases, hazard atements (H) and precautionary atements (P) which have not been ritten out in full in sections 2 to 15:	Not required.		
Tr	raining of personnel:	Required proper education regarding the use of the product, examination for occupational safety and health.		
Sc	ources:	Material safety data sheets, REACH regulations and CLP regulations.		

Cinkarna Celje, SAFETY DATA SHEET	Page 7 of 7
Trade name: ZINC CUBES - ANODES 25x24,3	

	A key or legend to abbreviation and acronyms used in the safety data sheet:	ADR	European Agreement concerning the International
		CLP	Regulation (EC) No 1272/2008 on classification, packaging and labelling of substances and mixtures
		DNEL	Derived No Effect Level
		LV	Limit
		PBT	Persistent, Bioaccumulative, Toxic
		PNEC	Predicted No Effect Concentration
		REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
		STOT	Specific target organ toxicity
		VPvB	Very Persistent, Very Bioaccumulative

Data specified above are based on research and experience of the supplier at the time of compiling the present MSDS. The supplier may not assume responsibility in case the buyer/user should fail to use the product in accordance with the relevant suggestions and recommendations. No information contained in the present MSDS may release the buyer/user from liability to strictly follow any legal requirements regarding his business activities.