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SAFETY DATA SHEET	Page 1 of 14
	Issued on: 12.4.2000
Trade name: SULPHURIC ACID - CONCENTRATED	Revised on: 27.2.2024
	Version: 11

1.1.	Product identifier (Product registration number):	SULPHURIC ACID CONCENTRATED	Identification no.:		
		( 01-2119458838-20-0082 )	P029165		
1.2.	Relevant identified uses of the substance/mixture and uses advised against:	As an intermediate in the manufacture of inorganic and organic chemicals, including fertilizers, as a process agent, catalyst, dehydrating agent, pH regulator in processes of surface treatment, extraction, refining, etching, electrolysis, gas treatment, production and processing of batteries, such as laboratory chemicals, industrial cleaning.  Area of usage: AC03, ERC01, ERC02, ERC04, ERC05, ERC06A, ERC06B, ERC07, ERC08A, ERC08B, ERC09B, PC0, PC14, PC15, PC19, PC20, PC21, PC35, PC40, PROC01, PROC02, PROC03, PROC04, PROC05, PROC08A, PROC08B, PROC09, PROC10, PROC13, PROC15, PROC19, SU02A, SU03, SU04, SU05, SU06B, SU08, SU09, SU10, SU11, SU14, SU15, SU16, SU17, SU21, SU22, SU23			
1.3.	Details of the supplier of the safety data sheet (manufacturer, importer, only representative, downstream user or distributor):				
1.3.1.	Supplier name:	CINKARNA CELJE, d.d.	Division:		
1.3.2.	Supplier address and phone:	Kidričeva 26, 3001 CELJE, SLOVENIJA, +3	386 3 427 60 00		
1.3.3.	E-Mail (competent person):	mitja.gracner@cinkarna.si			
1.4.	Emergency phone number:	In case of health hazard, please contact your personal physician. In case of medical emergency, please contact Emergency room as soon as possible. Additional information is available during working week from 7 AM to 3 PM on the telephone number +386 (0)3 427 6087.			
2. Ha	zards identification				
2.1.	Classification of substance or mixture:	In accordance with EU regulation Nr. 1272/	2008		
	(Regulation (EC) No 1272/2008	Corrosive to the skin, category 1A			
		H314: Causes severe skin burns and eye damage.			

15% Eye Irrit. 2;

H319: 5% <= C <

016-020-00-8

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Trade	name: SULPHURIC A	CID - CONCENTRATED				
					15%	
4. Fir	st aid measures					
4.1.	Description of first	aid measures:				
	Inhalation:		and place	dical help immediately. Take the them in a position that allows ing, such as the collar, a tie, a	easier bro	
			If you think that vapors are still present, the rescuer needs to use a suitable protective mask or a breathing apparatus. The injured person should not move; therefore, make sure that they are not cooling down. If they are not breathing or are breathing irregularly or if a respiratory arrest occurs, provide mouth-to-mouth or oxygen administered by trained personnel.			s. The injured at they are not athing irregularly or
	Skin contact:		Seek med	dical assistance at once.		
			Remove	all contaminated clothing and f	ootwear a	t once.
				skin with large quantities of co of 10 minutes and seek medic toms.		
			Chemical	burns must be treated by a do	ctor.	
	Eyes/mycosis contact:		Rinse thoroughly with large quantities of cold running water (approx. 15 minutes). Remove contact lenses, if the person is wearing them and if this can be done safely. The eyelids should be open, the eye should be moving in all directions. Continue rinsing for at least 15 minutes and seek medical assistance at once.			
	Ingestion:		Rinse mo	uth, do not induce vomiting		
4.2	Most important symdelayed:	ptoms and effects, acute and		to the respiratory tract, skin, eyental and physical disability, los		
			Aerosols and eye r	or vapors strongly irritate the renucosa.	espiratory	system, skin,
				ation of vapors causes serious ratory tract	injuries c	of the oral cavity
			Contact v	vith skin causes severe burns, ly and the wound festers	including	deep burns which
			Contact v	vith eyes causes severe burns,	may eve	n cause blindness.
			If swallow stomach.	red, serious injuries of the tong	ue, esoph	nagus, and
			Can also	cause death.		
4.3.	Indication of any im and special treatme	mediate medical attention nt needed:		d, immediately rinse mouth tho water. Do not induce vomit, se		
5. Fir	efighting measu	ıres				
5.1.	Extinguishing medi		Sulphuric	acid is non-flammable and do	es not bu	rn easily
	Appropriate media:			duct is involved in a fire, use fo		-

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	Inappropriate media:	Are not known. Water, in the case of an open co with the acid, results in a highly exothermic react evaporation of the water present. The possibility Water - exothermic reaction - explosion hazar	ion and the of an explosion.
5.2.	Specific hazards arising from the substance or mixture:	Do not spray water into open containers (severe reaction occurs with water – explosion hazar	
		Contact with metal dust can cause ignition. Acid non-flammable. In contact with metals, when the lower than 77%, generated hydrogen can form a with air, particularly if the acid is stored or transp which are not fully or tightly closed. When openir make sure there are no sources of fire nearby. We repairing such containers, pipelines and devices ventilation and prevent sparking.	concentration is n explosive mixture orted in containers ng such containers, /hen emptying and
		Decomposition of sulphuric acid generates water which together form a suffocating (stifling) fog the the respiratory tract, as well as vapors, which are Concentrations ranging from 1.5 to 2.5 ppm can discomfort while concentrations ranging from 10 already intolerable. Acid vapors are heavier than	at strongly irritates e not very toxic. cause great and 20 ppm are
		In case of a fire, the containers can be cooled wi but only if they are tightly closed. A suitable extir powder.	
5.3.	Advice for firefighters:	In the event of a fire, use water mist, foam, dry Due to the heat, the pressure in the container is burst. Products that are undergoing thermal contain SO <sub>2</sub> in SO <sub>3</sub> . In such cases, a special suit e.g. a personal protective suit and a breathing a face mask with overpressure.	rising and they may decomposition may needs to be used –
		For short-term respiratory tract protection (30 m maximum of 2% acid volume in the atmosphe volume, we can use a gas mask with chemical absorption. At higher concentrations, protect the a tubular mask, or self-contained apparatus proviand oxygen flow.	re and 16% oxyger filter for acid vapo respiratory tract with
		- protective gloves	
		- protective goggles, face shield (with a full face apparatus is not being used)	mask if a breathing
		- protective clothing and apron, impermeable sho	oes or boots
		- All of these have to be made from acid-proof m	aterial.
		See Section on 8.2.2.	
6. Ac	cidental release measures		
6.1.	Personal precautions protective equipment and	In the danger zone, use personal protective equi	pment.
	emergency procedures	Organize the necessary safety zone	
		Avoid contact with metals and combustible mate	rials.
		Call the police and fire fighters.	
		Remove unnecessary and unprotected personne	el.
		Ensure good ventilation.	
		Avoid inhalation of vapors and mists.	
6.1.1.	For non-emergency persons:	Remove any unauthorized personnel.	
6.1.2.	For emergency responders:	Mandatory use of respiratory protection, acid-res footwear and face shield, or goggles. See section	

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6.2.	Environmental precautions:	Prevent discharge into the soil, water, or sewer.	
		In the case of soil, water, or sewage contaminati responsible person.	on, inform the
6.3.	Methods and material for containment and cleaning:	To make a barrier (dike)	
5.3.1.	Appropriate spillage retaining techniques (fencing, covering drains, retaining procedures):	Containment by heaping earth, lime, or diatomac	ceous earth.
5.3.2.	Appropriate cleaning procedures		
	Neutralization techniques	Neutralize spilt acid with lime or slaked lime. Sm have to be neutralized to $pH = 6 - 9$ , and in large formed gypsum (calcium sulfate) has to be collectin a waste disposal landfill.	e quantities, the
	Decontamination techniques	Neutralize spilt acid with lime or slaked lime. Sm have to be neutralized to $pH = 6 - 9$ , and in large formed gypsum (calcium sulfate) has to be collect in a waste disposal landfill.	e quantities, the
		The spilt liquid should be collected or sucked with a non- combustible absorbent (earth, lime, or diatomaceous earth) is container and then taken to a landfill specified in accordance valid local regulations or by means of an authorized service that	
	Absorbent materials	Non-combustible absorbents - diatomaceous ea	rth, sand, earth.
	Cleaning techniques	The formed gypsum (calcium sulfate) has to be deposited in a waste disposal landfill.	collected and
	Sucking techniques	The procedure is possible if equipment made fro construction material is available.	m suitable
	Required equipment for retaining /cleaning	Shovels and appropriate packaging.	
3.3.3.	Inappropriate cleaning or retaining techniques	Rinsing and diluting with water and draining into water, or drains.	the soil, surface
6.4.	Reference to other sections:	See section 8.2.2.	
7. Ha	Indling and storage		
'.1.	Precautions for safe handling		
'.1.1.	Recommendations shall be specified to:	Keep reservoirs and containers with sulphuric ac designated, cool, dry, and ventilated place and containers	
	Safe handling of substance or mixture:	Personnel working with sulphuric acid have to be the dangers at work, proper handling, personal p and precautions in case of accidents (first aid an protection). Safety showers and eyewash fountain immediate vicinity of the storage area.	rotection equipmen d environmental
	Prevent handling of incompatible substances or	CAUTION: When diluting, always pour acid in	water.
	mixtures:	It is forbidden to store chlorates, chromates, nitra including combustible materials, HCl, HNO3, lea in the storage area.	
	Operations and conditions which create new risks by altering the properties of the substance or mixture, and to appropriate countermeasure:	Properties do not alter.	
	Reduce the release of the substance or mixture to the environment:	The storage area floor has to be made from acid area has to have a disposal sewer, leading to a where the spilt acid can be neutralized. Larger of stand on acid-proof base so as to allow the floor	collecting well (pit), ontainers have to

water.

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7.1.2.	General working hygiene (prohibited eating, drinking and smoking within working area; washing hands)	It is forbidden to eat, drink and smoke in work are is required.	eas; washing hands
		Dirty and contaminated clothing needs to be characteristic Before breaks and at the end of work, the washir required. A shower should be taken at the end of drink must not be kept in the vicinity of acid.	g of hands is
7.2.	Conditions for safe storage, including any incompatibilities		
	Management of risk associated with:		
	- explosive atmospheres:	Smoking is not permitted in the storage are sulphuric acid have to be closed tightly and cleathe hot season, containers have to be periodically	arly labelled. During
		CAUTION: such containers may contain the expl hydrogen.	osive gas
	- corrosive substances:	The storage area floor has to be made from acidarea has to have a drainage leading to a collecting the spilt acid can be neutralized. Larger containe acid-proof base so as to allow the floor to be was	ng well (pit), where rs have to stand on
	- incompatible substances or mixtures:	It is forbidden to store chlorates, chromates, nitra including combustible materials, HCl, HNO3, lead in the storage area.	
	- evaporation substances:	Sulfuric acid is non-volatile.	
	- potential ignition sources:	Smoking is forbidden in the storage area. Provide and prevent sparking.	e good ventilation
	How to control the effects of		
	- weather conditions:	Rain may not fall in the acid.	
	- ambient pressure:	Enable pressure equalization in the tank with ext	ernal pressure.
	- temperature:	The storage temperature should not be below (5) freezing (sulphuric acid begins crystallizing at + 7)	
	- sunlight:	Keep reservoirs and containers with sulphuric ac designated cool, dry and ventilated place and our	
		During the hot season, the containers have to be ventilated. Enable pressure equalization in the ta pressure.	
	- humidity:	Humid air should not enter into the container. Premust have a dry agent in order to prevent the constorage containers.	
	Securing integrity of substance or mixture by use of:		
	- stabilizers:	Is not necessary.	
	- antioxidants:	Is not necessary.	
	Other advice including:		
	- ventilation requirements;	Well ventilated (If the storage room is closed, it h well ventilated).	as to be
	- specific designs for storage rooms or vessels (including retention walls and ventilation):	The storage area floor has to be made from acidarea has to have a disposal sewer, leading to a conference where the spilt acid can be neutralized. Larger constant on acid-proof base so as to allow the floor water.	collecting well (pit), ontainers have to
		Uncontrolled spills of hazardous substances (tan sensor leakage of fluid or leakage sensor in the t	
	- quantity limitations regarding storage conditions:	If specifically required.	

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	- packaging compatibility:	Use only the prescribed packaging for hazardous substances Class 8, packing group II. (ADR).		
7.3.	Specific end use(s):	See section 1.2.		
8. Ex	posure control/ personal protection			
8.1.	Control parameters			
8.1.1.	Limit values (MV):	Sulphuric acid aerosol – concentration in air at workplace: 0.05 mg/m³		
	DNEL	0.05 mg/m <sup>3</sup> 0.5 mg/8 hours (combined daily exposure in 8 wo on 1.25 m <sup>3</sup> /h of inhaled air – source chemical saf	orking hours based ety report)	
	PNEC	Entry through food is not foreseen (the substance accumulate in the food chain)	e does not	
8.2.	Exposure control			
8.2.1.	Appropriate engineering controls:	See chapters 5, 6, 7, 10, 11, 12 and 13. The provisions need to b constantly taken into account and the implementation monitored.		
8.2.2.	Personal protective equipment:	All personal protective equipment has to be clean and in perfect condition at all times. Never use damaged equipment. Regular thorough checks are required.		
	- respiratory protection:	Half mask respirator (SIST EN 140), SPF 4. Appropriate filters (SIS EN 14387, class 2) for acidic gases (yellow color - code E)		
		In case of fire, see chapter 5.3		
	- skin protection:	Acid-proof clothing, hat (SIST EN 13034) and boil ISO 20345.	ots SIST EN	
	- hand protection:	Acid-proof gloves (SIST EN ISO 374-1).		
		Material: PVC		
		Penetration time: 60 min		
	- eye/face protection:	Material thickness: min. 1.2 mm  Safety goggles, tightly fitting the face or face shie ISO 16321-1 (SIST EN 166)	eld SIST EN	
	- heat radiation protection:	When mixing with water, a large amount of heat i (exothermic reaction, the liquid may splash or even may occur).		
	Other:	If user operations emit mist, gases, vapors, or ae process must take place in a closed system with keep employee exposure below recommended line.	good ventilation to	
8.2.3.	Environment exposure control:	See chapters 5, 6, 7, 10, 11, 12 and 13. The provisions need to be constantly taken into account and the implementation monitored.		
9. Ph	ysical and chemical properties			
9.1.	Information on basic physical and chemical properties:			
	- appearance	Oily liquid		
	- color	Colorless		
	- odor:	Odorless		
	nH·	$< 1 (4.9 \text{ g/l} \rightarrow \text{pH} \sim 1)$ $4.9 \times 10^{-3} \text{ mg/l} \rightarrow \text{pH} \sim 6$	( )	

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rade	e name: SULPHURIC ACID - CONCENTRATED			
	Melting/freezing point:	Concentration (% H <sub>2</sub> SO <sub>4</sub> )	melting range (°C)	1
		100	from 10.4 to 10.94	
		98	from -1.11 to 3.0	
		96	from -13.89 to -10	
		93	from -32.0 to -29.44	
		83	7.56 from -15 to -11.39	
		65	-36.78	
	Boiling point and boiling range :	~ 310°C, ( 338°C – 98		
	Flash point:	non-flammable	,	
	Auto-ignition temperature:	Does not auto ignite.		
	Flammability (solid, gas):	non-flammable (suspe	ended).	
	Upper/lower flammability or explosive limit:	non-flammable (susp	•	
	eppernewer marminasims, or expressive immu		n inorganic acid and does r	not contain any
		chemical groups asso	ociated with explosive prop	erties.
	Vapor pressure:	< 0.1 Pa at 20°C.		
	Relative density:	From 93% H <sub>2</sub> SO <sub>4</sub> to100% H <sub>2</sub> SO <sub>4</sub> ~ 1835 kg/m <sup>3</sup> (at 20 °C).		
	Solubility:	Unlimited; miscible in water.		
	partition coefficient: n-octanol-water	It is not important for the ionized substances.		
	Decomposition temperature:	Decomposition into SO <sub>3</sub> and H <sub>2</sub> O at 450°C		
	Kinematic viscosity:	No data available.		
	Relative vapour density:	Not applicable.		
	Viscosity:	Depends on the conc	entration ( 22.5 cP za 95%	H <sub>2</sub> SO <sub>4</sub> at 20 °C)
	Explosion properties:	•	n inorganic acid and does rociated with explosive prop	•
	Oxidation properties:	It is not an oxidizable	substance	
2.	Other information:	It is not an oxidizable	substance	
1	Information on physical hazard classes			
	-Explosives:	Not an explosive subs	stance.	
	- Flammable gases:	Not relevant, not a ga	as.	
	- Aerosols:	Use appropriate safet	ty equipment. See chapter	8.2.
		Corrosive to the skin,	category 1A.	
	- Oxidising gases:	Not relevant, not a ga	as.	
	- Flammable liquids:	Inflammable.		
	- Flammable solids:	Not relevant, not a so	lid.	
	- Corrosive to metals:	Corrosive.		
.2	Other safety-related parameters:	None.		
). S	Stability and reactivity	I NI-		-1-1- f-, d.
).1.	Reactivity:  No specific test data related to reactivity is available f			able for this produ

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10.2.	Chemical stability:	The product is stable.	
	,	Under normal storage, use, and transport cond	itions, hazardous
		reactions will not occur.	
10.3.	Possible hazardous reactions:	If involved in a fire, the substance may thermall generate hazardous and toxic gases SO <sub>3</sub> and S	
10.4.	Conditions to avoid:	Never pour water into the acid (explosive exoth	ermic reaction).
		Hazardous reaction when improperly mixed wit other acids. Contact with metals may generate with air may cause an explosion. See section 7	hydrogen. Mixture
10.5.	Incompatible materials:	Oxidizing agents, water, alkalis, organic compo	unds – see also 7.2
10.6.	Hazardous decomposition products:	Under normal storage and use conditions, haza products should not be produced. SO <sub>3</sub> , SO <sub>2</sub> and H <sub>2</sub> O (water vapor – aerosol).	ardous decomposition
11. To	xicological data		
11.1.	Information on toxicological effects		
	- Acute toxicity:	Ingestion:	
		Based on the results of the study, according to not classified as acutely toxic if ingested. Ingestammage to tongue, throat, and stomach.	
		Skin:	
		Based on the results of studies that have been it is not classified as toxic to the skin because the corrosion dominates - the destruction of tissue. burns and skin damage (sores) which do not he	he local effect of It causes severe
		Inhalation:	
		Causes respiratory tract irritation and ulcers.	
		The reason for not being classified as acutely to corrosiveness, which immediately destroys orgamost difficult cases, the end result is death due damage to organs.	anic tissue and, in the
	- skin corrosion/irritation:	Corrosive liquid, hazard category 1A (concentra	ation> 15% H <sub>2</sub> SO <sub>4</sub> ).
		Causes severe burns and skin damage (sores) well (concentration> 15% H <sub>2</sub> SO <sub>4</sub> ).	which do not heal
		Causes skin irritation, hazard category 2 (conce H <sub>2</sub> SO <sub>4</sub> to 15% H <sub>2</sub> SO <sub>4</sub> ).	entration from 5%
	- Serious eye damage/irritation:	Corrosive liquid, hazard category 1A (concentra	ation> 15% $H_2SO_4$ ).
		Contact with eyes causes severe chemical burr permanent blindness (concentration> 15% H <sub>2</sub> S	
		Causes eye irritation, hazard category 2 (conce H <sub>2</sub> SO <sub>4</sub> to 15% H <sub>2</sub> SO <sub>4</sub> ).	entration from 5%
	- respiratory or skin sensitization:	It is not classified as a substance that would ca because positive results have not been found, of term exposure.	
	- germ cell mutagenicity:	It is not mutagenic (Ames test negative).	
	- Carcinogenicity:	According to the results of a study on »the stroreffect« including sulphuric acid, there is a risk of human respiratory tract.	
	- Toxicity for reproduction:	Tests in vitro have not been implemented due t substance which destroy organs.	o the corrosive
	- STOT – single exposure:	Corrosive liquid, hazard category 1A (concentra	ation> 15% $H_2SO_4$ ).
	- STOT – repeated exposure:	Corrosive liquid, hazard category 1A (concentra	ation> $15\%$ H <sub>2</sub> SO <sub>4</sub> ).

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	- Aspiration hazards:	Corrosive liquid, hazard category 1A (concentration> 15%	H <sub>2</sub> SO <sub>4</sub> ).
		Inhaling vapors causes severe damage to the mouth and respiratory tract	
	- Endocrine disrupting properties:	Not listed.	
12. Ed	cological information		
12.1.	Toxicity:	It is not classified as toxic.	
		Corrosive liquid, hazard category 1A (concentration> 15%	H <sub>2</sub> SO <sub>4</sub> ).
		Due to its corrosiveness, it is hazardous for the environme water, it completely dissociates into hydrogen and sulfate	
12.2.	Persistence and degradability:	It is not classified as toxic.	
		Corrosive liquid, hazard category 1A (concentration> 15%	H <sub>2</sub> SO <sub>4</sub> ).
		Due to its corrosiveness, it is hazardous for the environment. In water, it completely dissociates into hydrogen and sulfate ions. Hydrogen ions diminish the pH of the local environment and can destroy living organisms.	
		Sulphuric acid can be removed from water only through neutralization and not through biological treatment.	
12.3	Bioaccumulative potential:	Does not bioaccumulate.	
12.4	Mobility in soil:	The liquid seeps into the ground	
12.5	PBT and vPvB assessment results:	Sulphuric acid is not classified as PBT or as a vPvB substance	
12.6	Endocrine disruptive properties:	No listed.	
12.7	Other adversative effects:	In water, it completely dissociates into hydrogen and sulfa Hydrogen ions diminish the pH of the local environment ar destroy living organisms.	
13. Di	sposal considerations		
13.1.	Waste treatment methods:	Examine possibilities for re-utilization. Product residues ar unclean empty containers should be closed, sealed, labell disposed of or recycled according to relevant national and regulations.  For disposal within the EC, the appropriate code according European Waste List (EWL) should be used. When unclear containers are passed on, the recipient must be warned of possible hazard that may be caused by residues.  Sulphuric acid is not allowed to be disposed of in any was but in a suitable waste disposal landfill. In small quantities has to be neutralized to pH = 6–9, and in large quantities thas to be neutralized with lime and the resulting gypsum sideposited in a suitable waste disposal landfill, complying walid regulations on waste disposal.	ed, and local g to the an empty f any te landfill , the acid the acid should be
		Special precautions: This material and its container must be disposed of in a sa Care should be taken when handling emptied containers t not been cleaned or rinsed out. Empty containers or liners retain some product residues. Avoid dispersal of spilt mater runoff and contact with soil, waterways, drains and sewers	hat have may erial and
14. Tr	ansport information		
	ADR, RID, AND, IMDG, ICAO-TI/IATA-DGR		
14.1.	UN number:	1830	
14.2.	UN proper shipping (technical name if required):	SULPHURIC ACID	
14.3	Transport hazard class:	8	

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14.4.	Packaging group:		П	
14.5.			Due to its corrosiveness, it is hazardous to the elements, it completely dissociates into hydrogen and Hydrogen ions diminish the pH of the local environments of the local environments.	d sulfate ions. onment and can
14.6.	Special precautions for user:		ADR/RID: Hazard identification number: 80 Hazard notes: Corrosive Avoid temperatures below -10 °C. Keep dry. Keep away from foodstuffs, acids, and alkalis.	0
14.7.	Maritime transport in bulk to IMO instr	ruments:	Not applicable.	
15. Re	egulatory information			
15.1.	i i i i i i i i i i i i i i i i i i i		European Agreement concerning the Internation Dangerous Goods (ADR).	al Carriage of
			Chemicals Act	
			Regulation on classification, labelling and packaging of dangerous substances.	
			Safety Act and the Occupational Health at Work.	
			CLP regulation with all changes.	
	_		Reach regulation with all changes.	
15.2.	Chemical safety assessment:		Chemical safety report (CSR).	
16. Ot	her information			
	Amendments made in the revised edition:	Revised protectio	based on change of exposure control in section 8	2.2. (eye/face
	List of relevant R phrases, hazard statements, safety phrases and/or precautionary statements. Write out the full text of any statement which are not written out in full under Sections 2 to 15:	Are listed	d in section 2.1. and 2.2.	
	in the case of mixtures, an indication of which of the methods of evaluating information referred to in Article 9 of Regulation (EC) No 1272/2008 was used for the purpose of classification:	Not relevant for a substance.		
	Training of personnel:	work is n	workers for work with hazardous substances and s	safety and health at
	Sources:		lata sheet of raw material and CLP regulation	
			l Safety Report	
		Registra	nt: CINKARNA CELJE D.D. CELJE SLOVENIJA	
		Guidance	e for safety usage	

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	A key or legend to abbreviation and acronyms used in the safety data sheet:	Dangerous Good	Agreement concerning the International Cs bio-accumulative and toxic	Carriage of
		vPvB – very persi	istent and very bio-accumulative	
		STOT – specific t	oxicity for target organs	
		DNEL – Derived I	No Effect Level	
		PNEC – Predicted	d No Effect Concentration	
		REACH: Registra	tion, Evaluation, authorization and restrict	ion of chemicals
		CLP: Regulation t goods	for Classification, Labelling and Packaging	g of dangerous
	A key or legend to abbreviation and	AC03	Electrical batteries and accumulators	
	acronyms used in the safety data sheet:	ERC01	Manufacture of substances	
	0.1001.	ERC02	Formulation of preparations*	
		ERC04	Industrial use of processing aids in proc products, not becoming part of articles	esses and
		ERC05	Industrial use resulting in inclusion into	
		ERC06a	Industrial use resulting in manufacture of substance (use of intermediates)	or another
		ERC06b	Industrial use of reactive processing aid	İs
		ERC07	Industrial use of substances in closed s	
		ERC08a	Wide dispersive indoor use of processir systems	ng aids in open
		ERC08b	Wide dispersive indoor use of reactive s systems	
		ERC09b	Wide dispersive outdoor use of substan systems	ces in closed
		PC0	UCN Code E10100	
		PC14	Metal surface treatment products, include electroplating products	ding galvanic and
		PC15	Non-metal-surface treatment products	
		PC19	Intermediate	
		PC20	Products such as ph-regulators, floccula neutralization agents	ants, precipitants,
		PC21	Laboratory chemicals	
		PC35	Washing and cleaning products (includi products)	ng solvent based
		PC40	Extraction agents	
		PROC01	Use in closed process, no likelihood of o	•
		PROC02	Use in closed, continuous process with controlled exposure	occasional
		PROC03	Use in closed batch process (synthesis	
		PROC04	Use in batch and other process (synthe opportunity for exposure arises	,
		PROC05	Mixing or blending in batch processes for preparations* and articles (multistage accontact)	
		PROC08a	Transfer of substance or preparation (charging/discharging) from/to vessels/linon-dedicated facilities	arge containers at
		PROC08b	Transfer of substance or preparation (charging/discharging) from/to vessels/lidedicated facilities	_
		PROC09	Transfer of substance or preparation int (dedicated filling line, including weighing	
	www.ainkarna.ai	PROC10	Roller application or brushing	

Cinkarna Celje, SAFETY DATA SHEET		
Trade name: SULPHURIC ACID - CONCENTRATED		
	PROC13	Treatment of articles by dipping and pouring
	PROC15	Use as laboratory reagent
	PROC19	Hand-mixing with intimate contact and only PPE available
	SU02a	Mining, (without offshore industries)
	SU03	Industrial uses: Uses of substances as such or in preparations* at industrial sites
	SU04	Manufacture of food products
	SU05	Manufacture of textiles, leather, fur
	SU06b	Manufacture of pulp, paper and paper products
	SU08	Manufacture of bulk, large scale chemicals (including petroleum products)
	SU09	Manufacture of fine chemicals
	SU10	Formulation [mixing] of preparations and/or repackaging(excluding alloys)
	SU11	Manufacture of rubber products

SU17	General manufacturing, e.g. machinery, equipment, vehicles, other transport equipment
SU21	Consumer uses: Private households (= general public =consumers)
SU22	Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
SU23	Electricity, steam, gas water supply and sewage treatment

Manufacture of basic metals, including alloys

Manufacture of fabricated metal products, except

Manufacture of computer, electronic and opticalproducts,

machinery and equipment

electrical equipment

SU14

SU15

SU16

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 SMDS may release the buyer/user from liability to strictly follow any legal requirements regarding his business activities.