

1. Identification	
Product identifier	
Product name	CADMIUM ACID
Product number	2020/5050
Recommended use of the che	emical and restrictions on use
Application	Industrial Use
Details of the supplier of the s	afety data sheet
Supplier	SIFCO Applied Surface Concepts 5708 E. Schaaf Road Independence, Ohio 44131 U.S.A. Tel.: +1 216-524-0099 Fax: +1 216-524-6331 E-Mail: info@sifcoasc.com
Emergency telephone numbe	r
Emergency telephone	CHEMTREC (United States) (800) 424-9300; CHEMTREC (International) +1 703-527-3887
2. Hazard(s) identification	
Classification of the substance	e or mixture
Physical hazards	Not Classified
Health hazards	Acute Tox. 3 - H331 Skin Corr. 1A - H314 Eye Dam. 1 - H318 Muta. 1B - H340 Carc. 1B - H350 Repr. 1B - H360FD STOT RE 1 - H372
Environmental hazards	Aquatic Chronic 2 - H411
Label elements Pictogram	
Signal word	Danger
-	-
Hazard statements	 H331 Toxic if inhaled. H314 Causes severe skin burns and eye damage. H340 May cause genetic defects. H350 May cause cancer. H360FD May damage fertility. May damage the unborn child. H372 Causes damage to organs through prolonged or repeated exposure. H411 Toxic to aquatic life with long lasting effects.

Precautionary statements	 P260 Do not breathe vapor/ spray. P264 Wash contaminated skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P284 [In case of inadequate ventilation] wear respiratory protection. P301+P310 If swallowed: Immediately call a poison center/ doctor. P302+P352 If on skin: Wash with plenty of water. P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P403+P233 Store in a well-ventilated place. Keep container tightly closed. P501 Dispose of contents/ container in accordance with national regulations.
Contains	CADMIUM SULPHATE, SULFURIC ACID 6.9%

Contains

CADMIUM SULPHATE, SULFURIC ACID 6.9%

Other hazards

This product does not contain any substances classified as PBT or vPvB.

3. Composition/information on ingredients

Mixtures

CADMIUM SULPHATE		20-25%
CAS number: 10124-36-4		
M factor (Acute) = 1	M factor (Chronic) = 1	
Classification		
Acute Tox. 4 - H302		
Acute Tox. 4 - H312		
Acute Tox. 4 - H332		
Muta. 1B - H340		
Carc. 1B - H350		
Repr. 1B - H360FD		
STOT RE 1 - H372		
Aquatic Acute 1 - H400		
Aquatic Chronic 1 - H410		
SULFURIC ACID 6.9%		5-10%
CAS number: 7664-93-9		

Classification

Skin Corr. 1A - H314 Eye Dam. 1 - H318

The full text for all hazard statements is displayed in Section 16.

4. First-aid measures

Description of first aid measures		
Inhalation	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Never give anything by mouth to an unconscious person. Get medical attention.	
Ingestion	Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.	

Skin Contact	Remove contaminated clothing immediately and wash skin with soap and water. Continue to rinse for at least 15 minutes and get medical attention.
Eye contact	Remove affected person from source of contamination. Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes and get medical attention.
Most important symptoms and	effects, both acute and delayed
Inhalation	Coughing, chest tightness, feeling of chest pressure. High concentrations may be fatal.
Ingestion	May cause chemical burns in mouth and throat. May cause stomach pain or vomiting.
Skin contact	May cause serious chemical burns to the skin.
Eye contact	Causes severe burns. May cause serious eye damage.
Indication of immediate medica	al attention and special treatment needed
Notes for the doctor	No specific recommendations.
5. Fire-fighting measures	
Extinguishing media	
Suitable extinguishing media	The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.
Special hazards arising from the	ne substance or mixture
Specific hazards	Toxic and corrosive gases or vapors.
Advice for firefighters	
Protective actions during firefighting	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.
Special protective equipment for firefighters	Use protective equipment appropriate for surrounding materials.
6. Accidental release measure	S
Personal precautions, protectiv	ve equipment and emergency procedures
Personal precautions	Follow precautions for safe handling described in this safety data sheet. Avoid inhalation of vapors. Provide adequate general and local exhaust ventilation.
Environmental precautions	
Environmental precautions	Do not discharge into drains or watercourses or onto the ground. Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air).
Methods and material for conta	ainment and cleaning up
Methods for cleaning up	Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Flush contaminated area with plenty of water. Avoid the spillage or runoff entering drains, sewers or watercourses. Collect and dispose of spillage as indicated in Section 13. Wash thoroughly after dealing with a spillage.
Reference to other sections	Wear protective clothing as described in Section 8 of this safety data sheet. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.
7. Handling and storage	
Precautions for safe handling	

Usage precautions

Avoid spilling. Avoid contact with skin and eyes. Avoid inhalation of vapors and spray/mists. Provide adequate general and local exhaust ventilation.

CADMIUM ACID

Conditions for safe storage, including any incompatibilities		
Storage precautions	Store in tightly-closed, original container in a dry, cool and well-ventilated place. Protect from freezing and direct sunlight.	
Storage class	Toxic storage. Corrosive storage.	
Specific end uses(s)		
Specific end use(s)	The identified uses for this product are detailed in Section 1.	
8. Exposure controls/Persona	al protection	
Control parameters		
Occupational exposure limits		
SULFURIC ACID 6.9%		
Long-term exposure limit (8-he	our TWA): OSHA 1 mg/m³	
Long-term exposure limit (8-ho A2	our TWA): ACGIH 0.2 mg/m³ thoracic fraction	
OSHA = Occupational Safety ACGIH = American Conference A2 = Suspected Human Carci	ce of Governmental Industrial Hygienists.	
Ingredient comments	WEL = Workplace Exposure Limits	
Exposure controls		
Protective equipment		
Appropriate engineering controls	As this product contains ingredients with exposure limits, process enclosures, local exhaust ventilation or other engineering controls should be used to keep worker exposure below any statutory or recommended limits, if use generates dust, fumes, gas, vapor or mist.	
Eye/face protection	Tight-fitting safety glasses.	
Hand protection	It is recommended that chemical-resistant, impervious gloves are worn. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. It is recommended that gloves are made of the following material: Nitrile rubber.	
Other skin and body protection	Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible.	
Hygiene measures	Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet.	
Respiratory protection	If ventilation is inadequate, suitable respiratory protection must be worn. Respiratory protection must be used if the airborne contamination exceeds the recommended	

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Liquid.
Color	Clear liquid.
Odor	No characteristic odor.
рН	pH (concentrated solution): 0-1

occupational exposure limit.

Relative density	1.295-1.305 @ 20°C	
Other information	Not available.	
10. Stability and reactivity		
Reactivity	There are no known reactivity hazards associated with this product.	
Stability	Stable at normal ambient temperatures and when used as recommended.	
Possibility of hazardous reactions	Not determined.	
Conditions to avoid	Avoid contact with the following materials: Acids. Oxidizing agents.	
Materials to avoid	Strong alkalis. Strong acids.	
Hazardous decomposition products	None at ambient temperatures.	
11. Toxicological information		
Information on toxicological e	ffects	
Acute toxicity - inhalation ATE inhalation (vapours mg/l)	3.0	
Inhalation	Vapor from this product may be hazardous by inhalation.	
Ingestion	Toxic if swallowed. Causes severe burns. May cause chemical burns in mouth, esophagus and stomach.	
Skin Contact	May cause serious chemical burns to the skin. May cause sensitization or allergic reactions in sensitive individuals.	
Eye contact	Causes serious eye damage. Immediate first aid is imperative.	
Acute and chronic health hazards	Causes severe burns. May cause cancer.	
Route of exposure	Ingestion Inhalation Skin and/or eye contact	
Toxicological information on in	ngredients.	
	CADMIUM SULPHATE	
Acute toxicity - c		
ATE oral (mg/kg		
Acute toxicity - d		
ATE dermal (mg	-	
Acute toxicity - in ATE inhalation (ppm)		
ATE inhalation (mg/l)	vapours 11.0	

	ATE inhalation (dusts/mists mg/l	1.5
		SULFURIC ACID 6.9%
	Acute toxicity - or	ral
	Acute toxicity ora mg/kg)	
	Species	Rat
	ATE oral (mg/kg)	2,140.0
12. Ecologie	cal information	
Ecotoxicity		Dangerous for the environment. May cause long-term adverse effects in the aquatic environment.
Toxicity		No data available.
Ecological i	nformation on ingre	adients.
		CADMIUM SULPHATE
	Acute aquatic to	kicity
	LE(C)50	$0.1 < L(E)C50 \le 1$
	M factor (Acute)	1
	Chronic aquatic t	oxicity
	M factor (Chronic	;) 1
		SULFURIC ACID 6.9%
	Acute aquatic to	ticity
	Acute toxicity - fis	sh LC₅₀, 96 hours: 42 mg/l, Fish
	Acute toxicity - ad invertebrates	quatic EC₅₀, : 29 mg/l, Daphnia magna
Persistence	and degradability	
Persistence	and degradability	No data available.
Bioaccumu	lative potential	
Bio-Accum	ulative Potential	The product does not contain any substances expected to be bioaccumulating.
Mobility in s	soil	
Mobility		The product is soluble in water.
Other adver		
Other adve		Not determined.
-	al considerations	
	ment methods	
General info	ormation	Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements.

14. Transport information

UN Number	
UN No. (TDG)	3289
UN No. (IMDG)	3289
UN No. (ICAO)	3289
UN No. (DOT)	3289
UN proper shipping name	
Proper shipping name (TDG)	TOXIC LIQUID, CORROSIVE, INORGANIC, N.O.S. (CADMIUM SULPHATE, SULPHURIC ACID%)
Proper shipping name (IMDG)	TOXIC LIQUID, CORROSIVE, INORGANIC, N.O.S. (CADMIUM SULPHATE, SULPHURIC ACID%)
Proper shipping name (ICAO)	TOXIC LIQUID, CORROSIVE, INORGANIC, N.O.S. (CADMIUM SULPHATE, SULPHURIC ACID%)
Proper shipping name (DOT)	TOXIC LIQUID, CORROSIVE, INORGANIC, N.O.S. (CADMIUM SULPHATE, SULPHURIC ACID%)
Transport hazard class(es)	
TDG class	6.1
TDG subsidiary risk	8
TDG label(s)	6.1 & 8
IMDG Class	6.1
IMDG subsidiary risk	8
ICAO class/division	6.1
ICAO subsidiary risk	8
Transport labels	
TDG Packing Group	П

TDG Packing Group	II
IMDG packing group	II
ICAO packing group	II
DOT packing group	II

Environmental hazards

Environmentally Hazardous Substance



Special precautions for user

EmS

F-A, S-B

Transport in bulk according to No information required. Annex II of MARPOL 73/78 and the IBC Code

15. Regulatory information	
National regulations	The customer is advised to check if there are specific local or national regulations specifically applicable to the chemicals contained in the product. The hazards statement for this product is in accordance with international regulations, always observing the most stringent requirements.
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US Federal Regulations

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities Sulfuric Acid 1000 lbs

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA) Sulfuric Acid Final CERCLA RQ: 1000 lbs

SARA Extremely Hazardous Substances EPCRA Reportable Quantities

Sulfuric Acid EPCRA RQ: 1000 lbs

SARA 313 Emission Reporting

Cadmium Sulphate Sulfuric Acid

CAA Accidental Release Prevention

Exempt.

SARA (311/312) Hazard Categories

Acute Chronic

OSHA Highly Hazardous Chemicals Exempt.

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins

Cadmium Sulphate

California Directors List of Hazardous Substances

Cadmium Sulphate Sulfuric Acid

Inventories

US - TSCA All ingredients are present.

16. Other information

Classification abbreviations and acronyms	Acute Tox. = Acute toxicity Carc. = Carcinogenicity Eye Dam. = Serious eye damage Eye Irrit. = Eye irritation Flam. Liq. = Flammable liquid Muta. = Germ cell mutagenicity Repr. = Reproductive toxicity Resp. Sens. = Respiratory sensitisation Skin Corr. = Skin corrosion Skin Irrit. = Skin irritation Skin Sens. = Skin sensitisation STOT RE = Specific target organ toxicity-repeated exposure STOT SE = Specific target organ toxicity-single exposure
Revision date	8/28/2018
Revision	3
Hazard statements in full	 H302 Harmful if swallowed. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. H331 Toxic if inhaled. H332 Harmful if inhaled. H340 May cause genetic defects. H350 May cause cancer. H360FD May damage fertility. May damage the unborn child. H372 Causes damage to organs through prolonged or repeated exposure. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects.
NFPA - health hazard	Extremely hazardous, serious injury. (3)
NFPA - flammability hazard	Will not burn. (0)
NFPA - instability hazard	Normally stable. (0)

The Information in this data sheet is believed to be correct but neither we nor our employees or agents give any warranty or make any representation to the accuracy thereof and accept no liability for any loss, injury or damage which may result in it's use. The sole purpose of this data sheet is to provide guidance on the safe handling and use of the products to which it relates. It does not form part of any product specification nor part of any contract. It is not practical for the guidance and information in this data sheet to cover every conceivable application of a product and as we may not be aware of the use to which the products covered by this data sheet are to be put it remains the responsibility of the user to conduct it's own tests and to satisy itself as to the suitability of the product.