# GOJIRA FINE CHEMICALS, LLC

gojirafc.com

# SAFETY DATA SHEET

Version 6.1 Revision Date 05/28/2017 Print Date 10/04/2019

1. PF	RODUCT AND COMPANY ID	ENTIFICATION
1.1	<b>Product identifiers</b> Product name	<sup>:</sup> Cadmium chloride
	Product Number	: CC1006
	CAS-No.	: 10108-64-2
1.2	f the substance or mixture and uses advised against	
	Identified uses	: Laboratory chemicals, Synthesis of substances
1.3	Details of the supplier of t	he safety data sheet
	Company	: Gojira Fine Chemicals 5386 Majestic Parkway, Suite 7 Bedford Heights, OH 44146
	Telephone	:440-252-5397
	Email	:docsupport@gojirafc.com
1.4	Fax <b>Emergency telephone nu</b> r	:888-211-5523 nber
	Emergency Phone #	: 800-255-3924 (ChemTel, Contract # MIS7318160)

# 2. HAZARDS IDENTIFICATION

# 2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity, Oral (Category 3), H301 Acute toxicity, Inhalation (Category 2), H330 Germ cell mutagenicity (Category 1B), H340 Carcinogenicity (Category 1B), H350 Reproductive toxicity (Category 1B), H360 Specific target organ toxicity - repeated exposure (Category 1), H372 Acute aquatic toxicity (Category 1), H400 Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

# 2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word



Danger

Hazard statement(s) H301 H330

Toxic if swallowed. Fatal if inhaled.

H340 H350 H360 H372 H410	May cause genetic defects. May cause cancer. May damage fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects.
Precautionary statement(s)	
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P284	Wear respiratory protection.
P301 + P310 + P330	IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth.
P304 + P340 + P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P391	Collect spillage.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

# **3. COMPOSITION/INFORMATION ON INGREDIENTS**

# 3.1 Substances

Formula	:	CdCl <sub>2</sub>
Molecular weight	:	183.32 g/mol
CAS-No.	:	10108-64-2
EC-No.	:	233-296-7
Index-No.	:	048-008-00-3

# Hazardous components

Component	Classification	Concentration		
<b>Cadmium chloride</b> Included in the Candidate List of Substances of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH)				
	Acute Tox. 3; Acute Tox. 2; Muta. 1B; Carc. 1B; Repr. 1B; STOT RE 1; Aquatic Acute 1; Aquatic Chronic 1; H301, H330, H340, H350, H360, H372, H410	<= 100 %		

For the full text of the H-Statements mentioned in this Section, see Section 16.

# 4. FIRST AID MEASURES

# 4.1 Description of first aid measures

# General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

# If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

# In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

### In case of eye contact

Flush eyes with water as a precaution.

### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

- **4.2** Most important symptoms and effects, both acute and delayed The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
- **4.3 Indication of any immediate medical attention and special treatment needed** No data available

# **5. FIREFIGHTING MEASURES**

#### 5.1 Extinguishing media

# **Suitable extinguishing media** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**5.2** Special hazards arising from the substance or mixture Hydrogen chloride gas, Cadmium/cadmium oxides

#### **5.3** Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information No data available

# 6. ACCIDENTAL RELEASE MEASURES

# 6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

#### 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

#### 6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

#### 6.4 Reference to other sections

For disposal see section 13.

# 7. HANDLING AND STORAGE

# 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.Further processing of solid materials may result in the formation of combu formation should be taken into consideration before additional processing Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

#### 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

hygroscopic Air sensitive. Store under inert gas.

#### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Control parameters
  - Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis	
Cadmium chloride	10108-64-2	TWA	0.010000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)	
	Remarks	Kidney damage Substances for which there is a Biological Exposure Index or Inc (see BEI® section) Suspected human carcinogen			
		varies TWA 0.002000 USA. ACGIH Threshold Limit Va mg/m3 (TLV)			
		Kidney damage Substances for which there is a Biological Exposure Index or (see BEI® section) Suspected human carcinogen varies Potential Occupational Carcinogen See Appendix A			
			ential Occupational Carcinogen Appendix A		
		PEL			
		1910.1027 This standard applies to all occupational exposures to cadmium cadmium compounds, in all forms, and in all industries covered the Occupational Safety and Health Act, except the construction related industries, which are covered under 29 CFR 1926.63. OSHA specifically regulated carcinogen			
		PEL	OSHA Specifically Regulated Chemicals/Carcinogens		
		1910.1027This standard applies to all occupational exposures to cadcadmium compounds, in all forms, and in all industries covthe Occupational Safety and Health Act, except the constructionrelated industries, which are covered under 29 CFR 1926.0OSHA specifically regulated carcinogenTWA0.01 mg/m3USA. ACGIH Threshold Li			
		Kidney dama Substances		(TLV) a Biological Exposure Index or Indices	
		(see BEI® section) Suspected human carcinogen varies			
		TWA	0.002 mg/m3	USA. ACGIH Threshold Limit Values (TLV)	
		Kidney damage Substances for which there is a Biological Exposure Index or India (see BEI® section) Suspected human carcinogen varies		a Biological Exposure Index or Indices	
		PEL	0.005 mg/m3	OSHA Specifically Regulated Chemicals/Carcinogens	
		1910.1027 This standard applies to all occupational exposures to cadmium and cadmium compounds, in all forms, and in all industries covered by the Occupational Safety and Health Act, except the construction- related industries, which are covered under 29 CFR 1926.63. OSHA specifically regulated carcinogen			

		See Appendix	( A				
<b>Biological occupat</b>	Biological occupational exposure limits						
Component	CAS-No.	Parameters	Value	Biological specimen	Basis		
Cadmium chloride	10108-64-2	cadmium	5.0000 µg/l	In blood	ACGIH - Biological Exposure Indices (BEI)		
	Remarks	Not critical	<u>.</u>		· · · ·		
		cadmium	0.0050 mg/g	Urine	ACGIH - Biological Exposure Indices (BEI)		
		Not critical					
		cadmium	5 µg/l	In blood	ACGIH - Biological Exposure Indices (BEI)		
		Not critical	<u>.</u>		· · · ·		
		cadmium	5µg/g creatinine	Urine	ACGIH - Biological Exposure Indices (BEI)		
		Not critical					

# 8.2 Exposure controls

# Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. **Personal protective equipment** 

# Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

# Full contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industria situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

# **Body Protection**

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

# **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use (EN 143) respirator cartridges as a backup to engineering controls. If th full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

# Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

# 9.1 Information on basic physical and chemical properties

a)AppearanceForm: solid Colour: whiteb)Odourodourlessc)Odour ThresholdNo data availabled)pHNo data availablee)Melting point/freezing pointMelting point/range: 568 °C (1054 °F) - lit.f)Initial boiling point and boiling range960 °C (1760 °F) at 1013 hPag)Flash point()No data availableh)Evaporation rateNo data availablei)Flammability (solid, gas)No data availablej)Upper/lower flammability or explosive limitsNo data availablek)Vapour pressure13 hPa at 656 °C (1213 °F)l)Vapour densityNo data availablem)Relative density4.050 g/cm3n)Water solubility457 g/l at 20 °C (68 °F) - OECD Test Guideline 1o)Partition coefficient: n- octanol/waterNo data availablep)Auto-ignitionNo data available	
<ul> <li>c) Odour Threshold No data available</li> <li>d) pH No data available</li> <li>e) Melting point/freezing point</li> <li>f) Initial boiling point and boiling range</li> <li>g) Flash point ()No data available</li> <li>i) Evaporation rate No data available</li> <li>i) Flammability (solid, gas) No data available</li> <li>i) Upper/lower flammability or explosive limits</li> <li>k) Vapour pressure 13 hPa at 656 °C (1213 °F)</li> <li>l) Vapour density A.050 g/cm3</li> <li>n) Water solubility 457 g/l at 20 °C (68 °F) - OECD Test Guideline 1</li> <li>o) Partition coefficient: n- octanol/water</li> </ul>	
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o) Partition coefficient: n- No data available octanol/water	
octanol/water	05 - soluble
p) Auto-ignition No data available	
temperature	
q) Decomposition No data available temperature	
r) Viscosity No data available	
s) Explosive properties No data available	
t) Oxidizing properties No data available	
Other safety information No data available	

# **10. STABILITY AND REACTIVITY**

# **10.1 Reactivity** No data available

9.2

- **10.2 Chemical stability** Stable under recommended storage conditions.
- **10.3 Possibility of hazardous reactions** No data available
- **10.4 Conditions to avoid** Air Avoid moisture.
- **10.5** Incompatible materials Oxidizing agents, Bromine trifluoride

# 10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Hydrogen chloride gas, Cadmium/cadmium oxides Other decomposition products - No data available In the event of fire: see section 5

# **11. TOXICOLOGICAL INFORMATION**

#### 11.1 Information on toxicological effects

## Acute toxicity

LD50 Oral - Rat - male - 107 mg/kg(Cadmium chloride) LC50 Inhalation - Rat - male - 2 h - > 4.5 mg/m3(Cadmium chloride) Dermal: No data available(Cadmium chloride) No data available(Cadmium chloride)

# Skin corrosion/irritation

No data available(Cadmium chloride)

# Serious eye damage/eye irritation

No data available(Cadmium chloride)

# Respiratory or skin sensitisation

No data available(Cadmium chloride)

# Germ cell mutagenicity

May alter genetic material.(Cadmium chloride) In vivo tests showed mutagenic effects(Cadmium chloride) in vitro assay(Cadmium chloride) S. typhimurium Result: negative

#### Carcinogenicity

This is or contains a component that has been reported to be carcinogenic classification. Chronic exposure to cadmium may cause lung and prostate cancer.(Cadmium chloride) Possible human carcinogen(Cadmium chloride)

IARC: 1 - Group 1: Carcinogenic to humans (Cadmium chloride)

1 - Group 1: Carcinogenic to humans (Cadmium chloride)

NTP: Known to be human carcinogen (Cadmium chloride)

Known to be human carcinogenThe reference note has been added by TD based on the background information of the NTP. (Cadmium chloride)

OSHA: 1910.1027 (Cadmium chloride)

OSHA specifically regulated carcinogen (Cadmium chloride)

#### **Reproductive toxicity**

May cause congenital malformation in the fetus.(Cadmium chloride) Presumed human reproductive toxicant(Cadmium chloride)

Overexposure may cause reproductive disorder(s) based on tests with laboratory animals.(Cadmium chloride)

# Specific target organ toxicity - single exposure

No data available(Cadmium chloride)

# Specific target organ toxicity - repeated exposure

Causes damage to organs through prolonged or repeated exposure.

# Aspiration hazard

No data available(Cadmium chloride)

# **Additional Information**

Repeated dose toxicity - Rat - male - Oral - No observed adverse effect level - 0.2 mg/kg - Lowest observed adverse effect level - 0.5 mg/kg(Cadmium chloride)

Acute inhalation exposure to cadmium fumes may cause "metal fume fever" wi chills, nausea, vomiting, dizziness, sweating, muscular pain, cough and d within 24 hours and reaches a maximum by three days. The first chronic eff manifested by excretion of excessive protein in the urine, followed by an is believed to cause pulmonary emphysema and bone disease. (Cadmium chloride)

Stomach - Irregularities - Based on Human Evidence Stomach - Irregularities - Based on Human Evidence(Cadmium chloride)

# **12. ECOLOGICAL INFORMATION**

# 12.1 Toxicity

•	
Toxicity to fish	flow-through test LC50 - Pimephales promelas (fathead minnow) - 1,500 μg/l - 96 h(Cadmium chloride)
Toxicity to daphnia and other aquatic invertebrates	static test EC50 - Daphnia magna (Water flea) - 0.036 mg/l  - 48 h(Cadmium chloride)
Toxicity to algae	static test EC50 - Pseudokirchneriella subcapitata (algae) - 0.070 mg/l  - 72 h(Cadmium chloride) (OECD Test Guideline 201)
Toxicity to bacteria	Respiration inhibition NOEC - Sludge Treatment - 0.2 mg/l (Cadmium chloride) (OECD Test Guideline 209)

# 12.2 Persistence and degradability

No data available

# 12.3 Bioaccumulative potential

Bioaccumulation

Salvelinus fontinalis - 266 d - 3.4 µg/l(Cadmium chloride)

Bioconcentration factor (BCF): 882

# 12.4 Mobility in soil

No data available(Cadmium chloride)

# 12.5 Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

# 12.6 Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life with long lasting effects.

No data available

# **13. DISPOSAL CONSIDERATIONS**

# 13.1 Waste treatment methods

# Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chem scrubber.

# Contaminated packaging

Dispose of as unused product.

# 14. TRANSPORT INFORMATION

# DOT (US)UN number: 2570Class: 6.1Packing group: IIIProper shipping name: Cadmium compounds (Cadmium chloride)

Poison Inhalation Hazard: No

# IMDG

UN number: 2570 Class: 6.1 Packing group: III Proper shipping name: CADMIUM COMPOUND (Cadmium chloride) Marine pollutant : yes

# ΙΑΤΑ

UN number: 2570 Class: 6.1 Packing group: III Proper shipping name: Cadmium compound (Cadmium chloride)

# **15. REGULATORY INFORMATION**

# SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

EMS-No: F-A, S-A

# SARA 313 Components

The following components a	re subject to reportin	g levels established by	/ SARA Title III, Section 313:

	CAS-No.	Revision Date
Cadmium chloride	10108-64-2	1993-04-24
SARA 311/312 Hazards Acute Health Hazard, Chronic Health Hazard		
Massachusetts Right To Know Components		
Cadmium chloride	CAS-No. 10108-64-2	Revision Date 1993-04-24
Pennsylvania Right To Know Components		
	CAS-No.	<b>Revision Date</b>
Cadmium chloride	10108-64-2	1993-04-24
New Jersey Right To Know Components		
	CAS-No.	Revision Date
Cadmium chloride	10108-64-2	1993-04-24
California Prop. 65 Components		
WARNING! This product contains a chemical known to the	CAS-No.	Revision Date
State of California to cause cancer.	10108-64-2	1987-10-01
Cadmium chloride		
WARNING: This product contains a chemical known to the	CAS-No.	Revision Date
State of California to cause birth defects or other reproductive	10108-64-2	1987-10-01
harm.		
Cadmium chloride		

# **16. OTHER INFORMATION**

## Full text of H-Statements referred to under sections 2 and 3.

H301	Toxic if swallowed.
H330	Fatal if inhaled.
H340	May cause genetic defects.
H350	May cause cancer.
H360	May damage fertility or the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.

HMIS Rating	
Health hazard:	4
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0
NFPA Rating	
Health hazard:	4
	~

# Fire Hazard: 0 Reactivity Hazard: 0

# **Further information**

The above information is believed to be accurate and represents the best information currently available to Gojira Fine Chemicals. However, we make no warranty or merchantability or any other warranty, express or Implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Gojira Fine Chemicals be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Gojira Fine Chemicals has been advised of the possibility of such damages.

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