

Section 1: Identification

Product

Product Code – Project 21 Hardeners
Product Name(s) – 2100F/2100S/2100X
HMIS Ratings - Health 3, Fire 1, Reactivity 0

Company Identification

Contact

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Locations

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Emergency Telephone Number

CHEMTEL 800-255-3924 OR 813-248-0585

Section 2: Hazards Identification

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200 Classification of the product

Acute Tox.	4 (oral)	Acute toxicity	
Acute Tox.	4 (dermal)	Acute toxicity	
Skin Corr./Irrit.	1B	Skin corrosion/irritation	
Eye Dam./Irrit.	1	Serious eye damage/eye irritation	
Skin Sens.	1A	Skin sensitization	
Aquatic Acute	3	Hazardous to the aquatic environment - acute	
Aquatic Chronic	3	Hazardous to the aquatic environment - chronic	

Signal Word: Danger Hazard Statement:

H312 Harmful in contact with skin.

H302 Harmful if swallowed.

H317 May cause an allergic skin reaction.

H314 Causes severe skin burns and eye damage.

H402 Harmful to aquatic life.

H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements (Prevention):

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P260 Do not breathe dust or mist.



P273 Avoid release to the environment.

P272 Contaminated work clothing should not be allowed out of the workplace.

P270 Do not eat, drink, or smoke when using this product.

P264 Wash with plenty of water and soap thoroughly after handling.

Precautionary Statements (Response):

P310 Immediately call a POISON CENTER or doctor/physician.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P361 + P364 Take off immediately all contaminated clothing and wash it before reuse.

Precautionary Statements (Storage):

P405 Store locked up.

Section 3: Composition/Information on Ingredients

INGREDIENT	WT%	CAS#
Aliphatic Amines	70-75%	(Mixture is a trade secret)
Benzyl Alcohol	20-30%	(Mixture is a trade secret)

Section 4: First Aid Measures

Description of first aid measures

General advice:

Immediately remove contaminated clothing. If danger of loss of consciousness, place patient in recovery position and transport accordingly. Apply artificial respiration if necessary. First aid personnel should pay attention to their own safety.

Inhalation:

Remove the affected individual into fresh air and keep the person calm. Assist in breathing if necessary. Immediate medical attention required.

Skin Contact:

Wash affected areas thoroughly with soap and water. Remove contaminated clothing. Immediate medical attention required.

Eye Contact:

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. Immediate medical attention required.

Ingestion:

Rinse mouth and then drink plenty of water. Do not induce vomiting. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Immediate medical attention required.



Most important symptoms and effects, both acute and delayed

Symptoms:

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

Indication of any immediate medical attention and special treatment needed

Note to physician

Treatment:

Treat according to symptoms (decontamination, vital functions), no known specific antidote. Pulmonary edema prophylaxis. Medical monitoring for at least 24 hours.

Section 5: Firefighting Measures

Extinguishing media

Suitable extinguishing media:

water spray, dry powder, foam, carbon dioxide

Special hazards arising from the substance or mixture

Hazards during firefighting:

No hazards known.

Advice for fire-fighters

Protective equipment for firefighting:

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

Further information:

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

Section 6: Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures

Wear appropriate respiratory protection. Use personal protective clothing. Ensure adequate ventilation.

Environmental precautions

This product is not regulated by RCRA. This product is not regulated by CERCLA ('Superfund').

Do not discharge into drains/surface waters/groundwater.

Methods and material for containment and cleaning up

Spills should be contained, solidified, and placed in suitable containers for disposal.

Section 7: Handling and Storage

Precautions for safe handling:

Containers should be opened carefully in well-ventilated areas to avoid static discharge. Protection against fire and explosion: No explosion proofing necessary.

Conditions for safe storage, including any incompatibilities:

Segregate from acids forming substances. Segregate from isocyanates. Segregate from epoxides. Suitable materials for containers: Carbon steel (Iron), Stainless steel 1.4401, Stainless steel 1.4301 (V2), High density polyethylene (HDPE), glass, Low density polyethylene (LDPE) Further information on storage



conditions: Containers should be stored tightly sealed in a dry place. Keep tanks under inert gas. Keep away from sources of ignition - No smoking. Keep container tightly closed and in a cool place.

Storage stability:

Storage duration: 12 Months From the data on storage duration in this safety data sheet no agreed statement regarding the warrantee of application properties can be deduced.

Storage Temperatures:

Store at room temperature.

Handling Preparation:

Do not heat prior to mixing with resins.

Section 8: Exposure Controls/Personal Protection

No occupational exposure limits known.

Advice on system design:

Provide local exhaust ventilation to control vapors/mists.

Personal protective equipment

Respiratory protection:

Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator.

Hand protection:

Chemical resistant protective gloves, Suitable materials, polyvinylchloride (Pylox)

Eye protection:

Tightly fitting safety goggles (chemical goggles). Wear face shield if splashing hazard exists.

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.

General safety and hygiene measures:

Eye wash fountains and safety showers must be easily accessible. Avoid inhalation of vapours/mists. Wear protective clothing as necessary to prevent contact.

Section 9: Physical and Chemical Properties

Appearance: Clear liquid
Odor: Slight ammonia odor

Odor threshold: NA

pH: 11.2

Melting point/freezing point: NA

Boiling Range: 205C Flash point: 150C Evaporation rate: 1.8

Flammability: Product is combustible

Vapor Pressure: .1 @25C Vapor density: 3.72

Solubility: 1g/25ml water at 17C

Partition coefficient: NA Auto-ignition temperature: NA



Decomposition Temperature: <400C

Viscosity: 200cps

Section 10: Stability and Reactivity

Corrosion to metals: No corrosive effect on metal.

Oxidizing properties: Based on its structural properties the product is not classified as oxidizing.

Formation of flammable gases: Forms no flammable gases in the presence of water.

Section 11: Toxicological Information

Acute toxicity

Oral:

Type of value: LD50

Species: rat

Value: 1,030 mg/kg

Inhalation:

No data available.

Dermal:

No data available. The European Union (EU) has classified this substance as 'harmful'.

Irritation / corrosion

Skin:

Species: rabbit **Result**: Corrosive.

Eye:

Species: rabbit

Result: Risk of serious damage to eyes.

Method: OECD Guideline 405

Sensitization:

Guinea pig maximization test No mutagenic effects reported. **Experimental/calculated data:**

Micronucleus assay

No mutagenic effects reported.

Aspiration Hazard:

No aspiration hazard expected.

Species: guinea pig **Result**: sensitizing

Method: OECD Guideline 406

Genetic toxicity

Experimental/calculated data:

Ames-test

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Section 12: Ecological Information

Fish

Acute:

Directive 84/449/EEC, C.1 semi static Leuciscus idus/LC50 (96 h): 110 mg/l

Nominal values (confirmed by concentration control analytics)

Chronic

Study scientifically not justified.

Aquatic invertebrates

Acute:

OECD Guideline 202, part 1 static Daphnia magna/EC50 (48 h): 23 mg/l

Nominal values (confirmed by concentration control analytics)

semi static

Chaetogammarus marinus/EC50 (48 h): 388 mg/l

The details of the toxic effect relate to the nominal concentration.

Chronic:

OECD Guideline 202, part 2 semi static Daphnia magna (NOEC) 21 d 3 mg/l

Nominal values (confirmed by concentration control analytics)

Aquatic plants

Toxicity to aquatic plants:

Directive 88/302/EEC, part C, p. 89 green algae/EC50 (72 h): > 50 mg/l

Nominal concentration.

Microorganisms

Toxicity to microorganisms:

DIN 38412 Part 8 bacterium/EC10 (18 h): 1,120 mg/l

Nominal concentration.

Degradability / Persistence

Biological / Abiological Degradation

Test method: Directive 92/69/EEC, C.4-A (aerobic),

Method of analysis: DOC reduction Degree of elimination: 8 % (28 d)

Evaluation: Not readily biodegradable (by OECD criteria).

Hydrolysis

Test method: OECD Guideline 111

Half-life: (50 °C) Bioaccumulation

Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be

expected. Literature data. Environmental mobility:

Transport between environmental compartments:

calculated adsorption/water - soil

KOC: 928 log KOC: 2.97

Other adverse effects:



Due to the pH-value of the product, neutralization is generally required before discharging sewage into treatment plants. The inhibition of the degradation activity of activated sludge is not anticipated when introduced

to biological treatment plants in appropriate low concentrations.

Section 13: Disposal Considerations

Waste disposal of substance:

Incinerate in a licensed facility. Do not discharge substance/product into sewer system.

Container disposal:

Dispose of in a licensed facility. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste (if applicable) and sent to a RCRA approved incinerator or disposed in a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state, and local requirements.

Section 14: Transportation Information

DOT PROPER SHIPPING NAME: Amine

UN NUMBER: UN2735

CLASS 8 PKG III

DOT HAZARD CLASS: Corrosive Liquid

SARA Title III:

This product contains no toxic chemicals subject to the report requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (EPRCA) and of 40 CFR 372.

Check with your local/federal logistic and shipping companies for proper classification of material.

Section 15: Regulatory Information

Federal Regulations, Registration status:

Chemical TSCA, US released / listed

OSHA hazard category: Acute target organ effects reported; Corrosive to skin and/or eyes; Sensitizer EPCRA 311/312 (Hazard categories): Acute; Chronic



Section 16: Other Information

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