



SAFETY DATA SHEET

FCW 1100

FCW 1100

Version 4

1. Identification of the Substance / Preparation and of the Company / Undertaking

Product Name: FCW 1100
Synonyms: Full Circle Water 1100 Blend
Formula: Not applicable to mixtures
Molecular Weight: Not applicable to mixtures

Company Name:

Full Circle Water 30801 Pearl Drive St. Joseph, MN 56374
(320) 529-4035

Emergency Telephone:

CHEMTREC (US): 1-800-424-9300

2. Hazards Identification

GHS - Classification

Skin corrosion/Irritation	Category 2
Serious eye damage/eye irritation	Category 2
Corrosive to metals	Category 1

Label elements



Signal Word:

Warning

Hazard Statements:

- Causes skin irritation
- Causes serious eye irritation
- May be corrosive to metals

Precautionary Statements:

- Wash face, hands and any exposed skin thoroughly after handling
- Keep only in original container
- Wear protective gloves and eye/face protection
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- If eye irritation persists: Get medical advice/attention
- IF ON SKIN: Wash with plenty of soap and water
- If skin irritation occurs: Get medical advice/attention
- Take off contaminated clothing and wash before reuse
- Absorb spillage to prevent material damage
- P406 - Store in corrosion resistant container with a resistant inner liner

3. Composition / Information on Ingredients

Chemical Name	CAS No	Weight-%
Trade Secret		25.2-58.8
Trade Secret		15-17
Trade Secret		Balance

4. First Aid Measures

Eye Contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists: Get medical advice/attention.
Skin Contact:	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician.
Inhalation:	Move to fresh air. If symptoms persist, call a physician.
Ingestion:	Clean mouth with water and drink afterwards plenty of water. If symptoms persist, call a physician. Do not induce vomiting.
Note to Physicians:	Treat symptomatically.

5. Fire-fighting Measures

Large Fires:

CAUTION: Use of water spray when fighting fire may be inefficient.

Explosive Properties:

Not considered to be an explosion hazard

Suitable Extinguishing Media:

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

Unsuitable Extinguishing Media:

Do not scatter spoiled material with high pressure water steams.

Protective Equipment and Precautions for Firefighters:

In the event of a fire, wear full protective clothing and MSHA/NIOSH (approved or equivalent) self-contained breathing apparatus with full face piece operated in the pressure-demand or other positive pressure mode.

6. Accidental Release Measures

Personal Precautions:	Use only with adequate ventilation.
Environmental Precautions:	Prevent further leakage or spillage if safe to do so.
Methods for Cleaning Up:	Use personal protective equipment as required. Cover liquid spill with sand, earth or other non-combustible absorbent material. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly.
Other Information:	Refer to protective measures listed in Section 7 and 8.

7. Handling and Storage

Advice on Safe Handling:	Avoid contact with skin, eyes or clothing. Use only with adequate ventilation.
Storage Conditions:	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from any source of heat or ignition. Keep away from incompatible substances.
Incompatible Materials:	Strong oxidizing agents. Strong acids. Strong bases.

8. Exposure Controls / Personal Protection

Engineering Controls: Showers. Eyewash stations. Ventilation systems.

Personal protective equipment (PPE)

Eye/Face Protection: Tight sealing safety goggles.
Body Protection: Suitable protective clothing. Long sleeved clothes.
General Hygiene Considerations: Handle in accordance with good industrial hygiene and safety practice.
Hand Protection: Wear suitable gloves. Impervious gloves.

9. Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Physical State:	Liquid	Odor:	Slight
Appearance:	Clear, slightly viscous liquid	Odor Threshold:	No information available
Color:	Water white to light yellow		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH:	3.00	pH Range: 3.00-4.00
"Salt Out" Point (°F): Melting Point/Freezing Point: Boiling Point/Boiling Range:	-4 °C / 25°F	No information available
Evaporation Rate (BuAc=1):		No information available
Flammability (solid, gas):		No information available
Flammability Limits in Air:		No information available
Upper Flammability Limit:		No information available
Lower Flammability Limit:		No information available
Vapor Pressure (mm Hg) :		No information available
Vapor density (Air =1)		No information available
Specific Gravity (H₂O=1):		No information available
Specific Gravity (2nd value):	1.285	No information available
Water Solubility:		No information available
Solubility (ies):		No information available
Partition Coefficient (n-octanol/water)		No information available
Autoignition Temperature:		No information available
Decomposition		No information available
Temperature: Kinematic		No information available
Viscosity: Dynamic		No information available
Viscosity: Oxidizing		No information available
Properties: Explosive	Not considered to be an explosion hazard	

9.2. Other information

Softening Point:	No information available
Molecular Weight:	Not applicable to mixtures
VOC Content (%):	No information available
Density:	No information available
Bulk Density:	No information available

10. Stability and Reactivity

Stability: Stable under normal conditions.

Conditions to Avoid: Exposure to air or moisture over prolonged periods.

Incompatible Materials: Strong oxidizing agents. Strong acids. Strong bases.

Hazardous Decomposition Products: Nitrogen oxides (NO_x); Carbon oxides; Hydrogen chloride.

Possibility of Hazardous Reactions: None under normal processing.

11. Toxicological Information

Product Information

Acute Toxicity:

The following values are calculated based on chapter 3.1 of the GHS document

Chemical Name	Oral LD ₅₀ :	Dermal LD ₅₀ :	LC ₅₀ (Lethal Concentration):
Trade Secret	=9187 mg/kg (Rat)	>2000 mg/kg (Rat)	-
Trade Secret	=3 g/kg (Rat)	-	-
Trade Secret	=90 mL/kg (Rat)	-	-

Chronic Toxicity:

Carcinogenicity: This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

12. Ecological Information

Ecotoxicity:

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
Trade Secret	-	100-500: 96 h <i>Brachydanio rerio</i> mg/L. LC50 static	-

Persistence and Degradability: No information available.

Bioaccumulation: Does not bio-accumulate.

Mobility: No information available.

13. Disposal Considerations

Waste from Residues/Unused Products: Disposal should be in accordance with applicable regional, national and local laws and regulations. Do not reuse empty containers.

14. Transport Information

DOT

Description Not DOT Regulated

15. Regulatory Information

International Inventories

All of the components in the product are on the following Inventory lists: TSCA (United States);, Canada (DSL/NDSL), Australia (AICS), South Korea (KECL);, China (IECSC), Philippines (PICCS),
This product contains a substance not listed on international inventories - it is for research and development use only.

AICS	Complies
TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	-
ENCS	-
IECSC	Complies
KECL	Complies
PICCS	Complies

Chemical Name	AICS	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS
Trade Secret	Present	XU	Present	-	-	-	(6)-1021	Present	KE-11829	Present
Trade Secret	Listed	Listed	Listed	-	Listed	-	-	Listed	KE-35400	Present

Inventory Legend

AICS - Australian Inventory of Chemical Substances

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

RESTRICTIONS - REACH TITLE VII: No information available.

US Federal Regulations

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic health hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive hazard	No

U.S. State Right-to-Know Regulations

California Proposition 65:

This product does not contain any Proposition 65 chemistry.

16. Other Information**National Fire Protection Association (NFPA) 60 Certification:****Maximum Use (mg/L unless otherwise indicated): 150**

Prepared By:	FCW Staff
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Disclaimer:

Please be advised that it is your responsibility to inform your employees of the hazards of this substance, to advise them of what these properties mean and be sure they understand exposure information. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication.

The information presented herein, while not guaranteed, was prepared by competent technical personnel and is true and accurate to the best of our knowledge. No warranty or guaranty, express or implied, is made regarding performance, stability, or otherwise. This information is not intended to be all-inclusive as to the manner and conditions of use, handling, and storage. Other factors may require additional safety or performance considerations. While our technical personnel will be happy to respond to questions regarding safe handling and use procedures, the handling and use remains the responsibility of the consumer. No suggestions are intended as, and should not be constructed as, a recommendation to infringe on any existing patents or to violate any Federal, State, or local laws.

End of Safety Data Sheet