

Mirachem 2791 Dicing Fluid

1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND OF THE COMPANY

Product Name:	Mirachem 2791 Dicing Fluid Concentrate		
Identified Uses:	Dicing aid, detergent, lubricant and coolant. Use at dilution only for the purpose indicated on the label.		
Company:	Mirachem, LLC P.O. Box 14059 Phoenix, Arizona 85063-4059 USA		
Email Address:	SDS@mirachem.com		
Customer Service:	USA (English)	Telephone	+1 800-847-3527
Emergency Phone Number(s)	USA (English)	Telephone	+1 800-847-3527
	Chemtrec (US)	Telephone	+1 800-424-9300
	China	Telephone	+86 0532-83889090

2. HAZARD(S) IDENTIFICATION

GHS Classification Does not meet the requirements for classification under GHS.

GHS Label Elements

Pictogram	None required.
Signal Word	None required.
Hazard Statements	None required.

Precautionary Statements

Prevention:	None required.
Response:	None required.
Storage:	None required.
Disposal:	None required.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Characterization: Mixture (water based)

Ingredient:	CAS Number	Percent
Water	7732-18-5	> 95
Nonionic Surfactants*	Proprietary	< 5

* Composition of these ingredients and their concentration is withheld as a trade secret in accordance with 29 CFR 1910.1200.

4. FIRST AID MEASURES

Protection of First-Aiders	First aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists refer to SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION, for specific personal protective equipment.
Inhalation:	No adverse effects are anticipated. Remove to fresh air. If breathing is difficult, get medical assistance.
Eye Contact:	May cause mild temporary irritation. If eye irritation develops, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if eye irritation persists.
Ingestion:	No adverse health effects are anticipated. If swallowed, treat symptomatically and supportively. Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. If adverse health effects develop, persist or are severe, seek medical attention if you feel unwell. Never give anything by mouth to an unconscious person.
Skin Contact:	No adverse effects expected. Prolonged or repeated exposure may cause mild irritation or drying of skin. If on skin, wash with plenty of water. If irritation develops or persists, get medical attention.
Symptoms and effects, both acute and delayed.	Aside from the information provided above and below, no additional symptoms and effects are anticipated.
Notes to Physician:	No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient. Skin contact may aggravate pre-existing dermatitis.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:	Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam. Alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams (including AFFF) or protein foams may function, but will be less effective. Do not use direct water stream. May spread fire.
Unusual Fire and Explosion Hazards:	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous Thermal Decomposition Products:	Decomposition products may include the following materials; carbon dioxide, carbon monoxide, nitrogen oxides.
Special Precautions for Fire Fighters:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving personal risk or without suitable training.
Special Protective Equipment for Fire Fighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:	Isolate area. Keep unnecessary and unprotected personnel from entering the area. Spilled material may cause a slipping hazard. Use appropriate safety equipment. For additional information, refer to SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION. Refer to SECTION 7 – HANDLING AND STORAGE, for additional precautionary measures.
Environmental Precautions:	Not classified as an environmental hazard. See SECTION 12 – ECOLOGICAL INFORMATION for additional information.
Methods for Cleaning up:	<i>Small Spills:</i> Clean up with absorbent and collect absorbent for disposal in accordance with Federal, State or local disposal requirements. <i>Large Spills:</i> Dike or otherwise contain spilled material. Collect and drum off material for disposal in accordance with Federal, State or local disposal requirements. Rinse with water. See SECTION 13 – DISPOSAL CONSIDERATIONS and SECTION 15 – REGULATORY REQUIREMENTS for additional information.

7. HANDLING AND STORAGE

Precautions for Safe Handling:	Avoid contact with eyes. Keep container closed. Promptly clean up spills. See SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION for additional information.
Conditions for Safe Storage, including Incompatibilities:	Keep containers tightly closed. Protect from freezing; may rupture or degrade product. Store between 40°F (4°C) and 110°F (43°C). Keep out of reach of children. The shelf life for unopened containers stored under the above conditions is 36 months from the date on the package.
Recommended Packaging Materials:	Use original container or clean plastic (polyethylene) containers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters:	None established (under ACGIH or OSHA.)
Engineering Controls:	No special requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Eye/Face Protection:	No protection is necessary. Wear safety glasses with side protection if splashing is likely or where conditions may cause eye exposure.
Skin Protection:	Under intended handling conditions, no protective clothing should be needed. Use protective clothing as required for the situation.
Hand Protection:	Under intended handling conditions, no protective gloves should be needed. Use protective gloves as required for the situation.
Respiratory Protection:	Under intended handling conditions, no respiratory protection is needed.
Personal Hygiene:	Use good personal hygiene. Do not consume or store food in the work area. Wash hands before smoking or eating.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear pourable liquid, water-white to light yellow.	Vapor pressure @ 20°C	Not established
Odor:	Essentially none.	Vapor density (air = 1)	Not established
Odor threshold:	Not established	Relative density:	Not established
pH:	5.5-7.0	Solubility in water:	Complete
Melting point:	Not applicable to liquids	Partition Coefficient:	Not established
Freezing point:	32°F (0 °C)	Auto-ignition temperature:	Not established
Initial boiling point:	212°F (100°C)	Decomposition temperature:	Not established
Flash point:	Not established	Viscosity @ 20°C:	< 100 cSt
Evaporation rate:	Not established	Liquid density @ 20°C:	1.00 g/cm ³
Flammability:	Not classified	VOC	0.0 g/l (0.0 lbs/gal)
Flammable Limits in air:			
Upper explosive limit:	Not established		
Lower explosive limit:	Not established		

10. STABILITY AND REACTIVITY

Chemical Stability & Reactivity:	The product is stable
Possibility of hazardous reactions:	Under normal conditions of storage and use, hazardous polymerization will not occur.
Conditions to avoid:	No specific data.
Incompatible materials:	Avoid contact with strong acids, strong bases or strong oxidizers.
Hazardous decomposition products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. TOXICOLOGICAL INFORMATION

The GHS health hazard classifications have been calculated adhering to GHS guidelines for mixtures. The Acute Toxicity Estimates for this mixture (ATE_{mix}) are representative of these calculations.

Likely routes of exposure: Inhalation _____ Skin contact X Eye contact X Ingestion _____

Acute Toxicity:

Oral:	Not classified	LD ₅₀ ATE _{mix}	> 2,500
Dermal:	Not classified	LD ₅₀ ATE _{mix}	> 2,500
Inhalation:	No relevant data available.		
Other routes:	Not applicable.		

Skin corrosion/irritation:	Does not meet the requirements for classification. Non-irritating.
Serious eye damage/irritation:	Does not meet the requirements for classification. Non-irritating.
Skin sensitization:	No component of this mixture is known to be a skin sensitizer.
Respiratory sensitizer:	No relevant data available.

Chronic Toxicity:

Mutagenicity:	No component in this mixture is known to be a mutagen or genotoxin.
Carcinogenicity:	No component of this mixture is listed by IARC, NTP, OSHA or ACGIH as a carcinogen.
Teratogenicity:	No component in this mixture is known to be a teratogen.
Developmental / fertility effects:	No known significant effects or critical hazards.

Specific Target Organ Toxicity (STOT)	Single dose:	No relevant data available.
	Repeat exposure:	No relevant data available.
Aspiration hazard:	No relevant data available.	

12. ECOLOGICAL INFORMATION

The GHS environmental hazard classifications have been calculated adhering to GHS guidelines for mixtures. The Acute Aquatic Toxicity Estimates for this mixture (ATE_{mix}) are representative of these calculations.

Toxicity:

Acute Aquatic Toxicity	Fish	Not classified	LC ₅₀ ATE _{mix}	> 100 mg/l
	Crustacea	No relevant data available.		
	Algae	No relevant data available.		
Chronic Aquatic Toxicity	No relevant data available.			
Persistence and degradability:	The individual components of this mixture are readily biodegradable.			
Bioaccumulative potential:	No relevant data available.			
Mobility in soil:	No relevant data available.			

13. DISPOSAL CONSIDERATIONS

The generation of waste should be avoided or minimized wherever possible. Empty containers may retain some product residues. Rinse container before disposal. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff with soil and waterways.

RCRA Classification: Unused disposed material is ***not*** a RCRA Hazardous Waste.

Note: Chemical additions to, processing of, or otherwise altering this material may make this waste management information incomplete, inaccurate, or otherwise inappropriate. Furthermore, State and local waste disposal requirements may be more restrictive or otherwise different from Federal laws and regulations.

14. TRANSPORT INFORMATION

UN Number:	N/A	Transportation Hazard Class:	N/A
UN Proper Shipping Name:	N/A	UN Packing Group:	None
ADR (EU Carriage):	Not regulated	RID (Rail)	Not regulated
AND/ADNR (Inland water):	Not regulated	ICAO/IATA (Air)	Not regulated
IMO/IMDG (Marine):	Not regulated		
DOT Shipping Name:	Non-regulated	DOT Hazard Classification:	N/A
NMFC Freight Class:	Compound, Cleaning Fluid, NOI 48580 Sub 3		
HS Tariff Classification (Schedule B)	3402.90.5030		
Special Precautions:	No known special precautions.		

15. REGULATORY INFORMATION

US Federal Regulations

SARA Title III

Section 302 – Extremely Hazardous Substance

This product does not contain chemicals at levels which require reporting under this statute.

Section 304:
CERCLA: Hazardous Substances

Releases of this product to air, land, or water are not reportable to the National Response Center under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) or to state and local emergency planning committees under the Superfund Amendments and Reauthorization Act (SARA) Title III Section 304.

Sections 311 & 312

Immediate (acute) Health Hazard	No
Delayed (chronic) Health Hazard	No
Fire Hazard	No
Reactive Hazard	No
Sudden Release of Pressure	No

Section 313

This product does not contain chemicals at levels which require reporting under this statute.

TSCA

All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

International Regulatory Information

Notice: The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warrantee, express or implied is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with their federal, state/province, and local laws. The following specific information is made for the purpose of complying with numerous specific foreign regulations.

Country Substance (Chemical) Inventories

Australia	AICS	The individual components of this mixture are listed.
Canada	DSL	The individual components of this mixture are listed.
China	IECSC	All materials in this formulation are listed in the Inventory of Existing Chemical Substances Produced or Imported in China (IECSC).
European Union	EINECS	All individual ingredients are listed, exempt or notified (ELINCS)
Japan	ENCS	The individual components of this mixture are listed.
Korea	KECI	The individual components of this mixture are listed.
Philippines	PICCS	The individual components of this mixture are listed.
Taiwan	NCSR	The individual components of this mixture are listed.
United States	TSCA	All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

Other International Regulations:

Australia

This product is not classified as hazardous according to criteria of Worksafe Australia. Mirachem has reviewed Australia's List of Hazardous Substances and Australia's Standard of the Uniform Scheduling of Drugs and Poisons and determined that no ingredient in this product is listed in either listing. We have also verified with NICNAS at the Australian National Occupational Health & Safety Commission (NOHSC) that all of the components in this formulation are listed in the Australian Inventory of Chemical Substances (AICS) and that no notification will be necessary under the Industrial Chemicals (Notification and Assessment) Act 1989.

Canada

Non-controlled under WHMIS.

China

No material in this formulation is listed in the following

- Catalog of Hazardous Chemicals
- Catalog of Highly Toxic Chemicals
- List of Toxic Chemicals Restricted to be Imported/Exported
- Inventory of Prohibited Chemical
- Hazardous Chemicals for Priority Management
- Catalog of Precursors and Chemicals used in Production of Narcotic Drugs and Psychotropic Substances

European Union

All materials in this formulation are EINECS listed. Not a hazardous preparation according to the EC-Directive 88/379/EEC.

EC Regulation 1907/2006 (the "REACH Regulation") – as of December 1, 2008, there are no (pre-) registration requirements under the REACH Regulation with respect to this product. For further information, please contact your local European distributor or Mirachem at www.mirachem.com.

This product has "no classification" under the following acts; The Dangerous Substances Directive (Directive 67/548/ECC, "DSD"), Dangerous Preparations Directive (Directive 1999/45/EC, "DPD) or Regulation on classification, labeling and packaging of substances and mixtures or "CLP Regulation" (EC No. 1272/2008).

Korea

All materials in this formulation have ECL Serial Numbers. No material in this product is made from animal by-products.

16. OTHER INFORMATION

HMIS Rating:

Health	0
Flammability	0
Physical Hazards	0

NFPA Rating:

Health	0
Flammability	0
Reactivity	0

IMPORTANT NOTICE: The information provided in this Safety Data Sheet (SDS) is presented in good faith, is based on the current state of scientific and technical knowledge, and is believed to be accurate as of the revision date shown herein. It is intended to meet the obligations of applicable worker or environmental safety regulations in effect at the time of publication. However, laws and regulations are subject to change, and differ from one location to another; it is the User's responsibility to ensure that its activities comply with applicable national, regional, and local laws.

In addition to its own technical knowledge and experience, Mirachem relies on information provided by suppliers and other third-party resources in preparing this document. Information presented may summarize, calculate, correlate, aggregate, or generalize this information using methods and practices that are reasonable, customary, and technically appropriate within the specialty chemical industry. This SDS is not intended to be, nor should it be used as, a comprehensive analytical analysis of the indicated formulation.

The information provided herein is applicable to the indicated Mirachem product in original, packaged, unadulterated condition. The technical, health, or safety information reported in this document may no longer apply to product that has been used, diluted, processed, or otherwise exposed to environmental or use conditions.

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