



Safety Data Sheet Ice Machine Cleaner

Revision
Date: 03/24/2025

Section 1. Identification

Product identifier

Product Identity

Ice Machine Cleaner.

Other means of identification

PTN: W11179302

Relevant identified uses of the substance or mixture and uses advised against

See Label

Details of the supplier of the safety data sheet

Company Name

Whirlpool Corporation
2000 N. M-63
Benton Harbor, MI 49022

Emergency

Customer Service:

1-800-643-0961 (USA)
1-888-253-2668 (CANADA)

For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident
Call CHEMTREC Day or Night Within

USA and Canada: 1-800-424-9300
Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

Section 2. Hazard(s) identification

Classification of the substance or mixture under OSHA's Hazard Communication Standard (1910.1200) revised 2024 (GHS revision 7).



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Serious eye damage / eye irritation, category 1;H318

Causes serious eye damage.

Label elements



Danger

H318 Causes serious eye damage.

[Prevention]

P280 Wear protective gloves, eye protection, and face protection.

[Response]

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER, doctor or physician.

[Storage]

No GHS storage statements

[Disposal]

No GHS disposal statements

Other hazards

This product contains no PBT/vPvB/vPvM chemicals.

This product contains no endocrine disrupting chemicals.

Does not contain component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS) per US or Canadian regulations.

Section 3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the OSHA's Hazard Communication Standard (1910.1200) revised 2024 (GHS revision 7).

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Sodium bisulfate CAS Number: 7681-38-1 Synonyms: Sulfuric acid, monosodium salt	7 - 13	Serious eye damage / eye irritation, category 1;H318	-----
Citric acid CAS Number: 77-92-9 Synonyms: 2-HYDROXY 1, 2, 3 PROPANE TRICARBOXYLIC ACID	1 - 5	Eye Dam. 2;H319 Specific target organ toxicity, Single exposure category 3;H335	-----

The actual concentration or concentration range is withheld as a trade secret.

*PBT/vPvB - PBT, vPvM or vPvB-substance.

The full texts of the phrases are shown in Section 16.



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Section 4. First aid measures

Description of first aid measures

General	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
Inhalation	Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious, place in the recovery position and obtain immediate medical attention. Give nothing by mouth.
Eyes	Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.
Skin	Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.
Ingestion	If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

Most important symptoms and effects, both acute and delayed

Overview	Skin: Not a skin irritant Eyes: Irritant. May cause eye irritation. Inhale: May cause respiratory irritation of the respiratory tract. Ingest: May cause irritation of the digestive tract. Existing skin diseases may be aggravated by overexposure. Treat symptomatically. See section 2 for further details.
Eyes	Causes serious eye damage.

Section 5. Fire-fighting measures

Extinguishing media

Recommended extinguishing media; alcohol resistant foam, CO², powder, water spray.
Unsuitable extinguishing media: Do not use; water jet.

Special hazards arising from the substance or mixture

Hazardous decomposition: When heated, emits highly toxic and corrosive fumes of hydrogen compounds and hydrogen gas.

Advice for fire-fighters



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As with all fires, wear positive pressure, self-contained breathing apparatus, (SCBA) with a full face piece and protective clothing. Persons without respiratory protection should leave area. Wear SCBA during clean-up immediately after fire. No smoking.

Use water vapor, foam or fog. Firefighters should wear proper protective equipment.

ERG Guide No. ---

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).

Environmental precautions

Do not allow spills to enter drains or waterways.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

Methods and material for containment and cleaning up

Spill Clean Up: Wear appropriate protective equipment. Absorb with an inert material and put spilled material in appropriate waste disposal.

Contain, dilute cautiously with water, and neutralize with soda ash or lime.

Section 7. Handling and storage

Precautions for safe handling

Handle containers carefully to prevent damage and spillage.

Avoid contact with eyes. Keep container closed. Wash thoroughly after handling.

See section 2 for further details. - [Prevention]

Conditions for safe storage, including any incompatibilities

Keep container in cool well ventilated area. Keep container tightly closed. Store away from incompatible materials. Keep out of the reach of children.

Incompatible materials: Acids, strong alkali, chemical reducing agents.

See section 2 for further details. - [Storage]

Specific end use(s)

No data available.



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Section 8. Exposure controls / personal protection

Control parameters

Exposure

CAS No.	Ingredient	Source	Value
77-92-9	Citric acid	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
7681-38-1	Sodium bisulfate	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit

Exposure controls

Respiratory

Use NIOSH/MSHA approved respirator, following manufacturer's recommendations when concentrations exceed permissible exposure limits.

Eyes

Wear safety glasses with side shields to protect the eyes. An eye wash station is suggested as a good workplace practice.

Skin

Chemical resistant clothing such as coveralls/apron and boots should be worn. Wear appropriate protective gloves.

Engineering Controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.

Other Work Practices

Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details.

Section 9. Physical and chemical properties

Information on basic physical and chemical properties

Physical State

Liquid

Color

Pale Yellow Clear

Odor

Characteristic

Melting point / freezing point

Not Available

Initial boiling point and boiling range

Not Available

Flammability (solid, gas)

Not Applicable



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Upper/lower flammability or explosive limits

Lower Explosive Limit: Not Available

Flash Point

Upper Explosive Limit: Not Available

Auto-ignition temperature

Not Available

Decomposition temperature

Not Available

pH

Not Available

Viscosity (cSt)

<1

Solubility in Water

Not Available

Partition coefficient n-octanol/water (Log Kow)

Soluble

Vapor pressure (Pa)

Not Available

Relative Density

Not Available

Vapor Density

Not Available

Evaporation rate (Ether = 1)

Not Available

VOC Content

Not Available

Other information

No other relevant information.

Section 10. Stability and reactivity

Reactivity

Hazardous Polymerization will not occur.

Chemical stability

Stable under normal circumstances.

Possibility of hazardous reactions

No data available.

Conditions to avoid

Excessive heat and open flame.

Incompatible materials

Acids, strong alkali, chemical reducing agents.

Hazardous decomposition products

When heated, emits highly toxic and corrosive fumes of hydrogen compounds and hydrogen gas.

Section 11. Toxicological information

Acute toxicity

Product Testing Results:

Eye Irritation: There was no corneal opacity or iritis notated at any observation period. Conjunctival irritation noted in three out of three eyes, cleared in 7 days.

There was no abnormal physical signs noted during the observation period.

Conclusion: Ocular administration of product produced irritation which cleared in 7 days.



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Skin Irritation: Absent very slight erythema and no edema were observed at the 1 hour following the 4 hour exposure. There was no abnormal physical signs noted during the observation period.

Conclusion: Product is not a dermal irritant.

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
Sodium bisulfate - (7681-38-1)	>2,000.00, Rat - Category: 5	No data available.	No data available.	No data available.	No data available.
Citric acid - (77-92-9)	No data available.	> 2,000.00, Rat - Category: NA	No data available.	No data available.	No data available.

Carcinogen Data

CAS No.	Ingredient	Source	Value
77-92-9	Citric acid	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No;
		ACGIH	No Established Limit
7681-38-1	Sodium bisulfate	OSHA	Regulated Carcinogen: No;
		NTP	Known: No; Suspected: No;
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No;
		ACGIH	No Established Limit

Classification	Category	Hazard Description
Acute toxicity (oral)	---	Not Applicable
Acute toxicity (dermal)	---	Not Applicable
Acute toxicity (inhalation)	---	Not Applicable
Skin corrosion/irritation	---	Not Applicable
Serious eye damage/irritation	1	Causes serious eye damage.
Respiratory sensitization	---	Not Applicable
Skin sensitization	---	Not Applicable
Germ cell mutagenicity	---	Not Applicable
Carcinogenicity	---	Not Applicable
Reproductive toxicity	---	Not Applicable
STOT-single exposure	---	Not Applicable
STOT-repeated exposure	---	Not Applicable
Aspiration hazard	---	Not Applicable

Possible routes of entry: No data available.

Symptoms and effects, both acute and delayed:

Skin: Not a skin irritant

Eyes: Irritant. May cause eye irritation.



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Inhale: May cause respiratory irritation of the respiratory tract.

Ingest: May cause irritation of the digestive tract. Existing skin diseases may be aggravated by overexposure.

Treat symptomatically.

Eyes Causes serious eye damage.

Section 12. Ecological information

Toxicity

No additional information provided for this product. See Section 3 for chemical specific data.

Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/L	48 hr EC50 crustacea, mg/L	ErC50 algae, mg/L
Sodium bisulfate - (7681-38-1)	7,960.00, Pimephales promelas	3,073.00, Daphnia magna	No data available.
Citric acid - (77-92-9)	600.00, Leuciscus idus	2,083.00, Daphnia magna	No data available.

Persistence and degradability

There is no data available on the preparation itself.

Bioaccumulative potential

Not Available

Mobility in soil

No data available.

Results of PBT and vPvB assessment

This product contains no PBT/vPvB/vPvM chemicals.

Other adverse effects

No data available.

Section 13. Disposal considerations

Waste treatment methods

Waste should not be released to sewers. Observe all federal, state, and local regulations when disposing of this substance.



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Section 14. Transport information

	DOT (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO/IATA
UN number	UN3264	UN3264	UN3264
UN proper shipping name	Corrosive liquid, acidic, inorganic, n.o.s., (Sodium Bisulfate, Citric Acid Mixture)	Corrosive liquid, acidic, inorganic, n.o.s., (Sodium Bisulfate, Citric Acid Mixture)	Corrosive liquid, acidic, inorganic, n.o.s., (Sodium Bisulfate, Citric Acid Mixture)
Transport hazard class(es)	Class: 8	Class: 8	Class: 8
Packing group	III	III	III

Environmental hazards

Marine Pollutant: ;

Special precautions for user

Not Applicable

Section 15. Regulatory information

Regulatory Overview The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

Classification of the substance or mixture under OSHA's Hazard Communication Standard (1910.1200) revised 2024 (GHS revision 7).

Toxic Substance Control Act (TSCA)

CAS Number	Ingredient	Toxic Substance Control Act (TSCA)	Comments	Status
0000077-92-9	Citric acid	Yes		ACTIVE
0007681-38-1	Sodium bisulfate	Yes		ACTIVE

EPCRA 302 Extremely Hazardous:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

EPCRA 313 Toxic Chemicals:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Carcinogens (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.



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Proposition 65 - Developmental Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Female Repro Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Male Repro Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 Label Warning:

This product contains no chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Section 16. Other information

Revision Date 01/17/2025

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

The information contained herein is furnished without warranty of any kind. The above information is believed to be correct but does not purport to be all inclusive and should be used only as a guide. Users should make independent determinations of the suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers.

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