



# H.B. 30 Ice Machine Cleaner

H-316, H-301

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations  
Revision date: 6/30/2021 Supersedes: 7/23/2018

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
Trade name : H.B. 30 Ice Machine Cleaner  
Product code : H-316, H-301

#### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : Commercial ice machine cleaner

#### 1.3. Supplier

##### Distributor

Hydro-Balance Corporation  
Lewisville, TX - USA  
T 972-394-9422, 800-527-5166 - F 972-394-6755  
[Info@HydroBalance.com](mailto:Info@HydroBalance.com) - [www.HydroBalance.com](http://www.HydroBalance.com)

##### Manufacturer

North American Research Corporation  
519 Huffines Blvd., Lewisville, TX 75056  
P.O. Box 1318, Lewisville, TX 75067  
- USA  
T 972-492-1800, 800-527-7520 - F 972-394-6755  
[Info@narcochem.com](mailto:Info@narcochem.com) - [www.narcochem.com](http://www.narcochem.com)

#### 1.4. Emergency telephone number

Emergency number : For Chemical Emergency Call Infotrac 24hr/day 7days/week  
Within USA and Canada: 1-800-535-5053  
Outside USA and Canada: 1-352-323-3500

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS US classification

Corrosive to metals Category 1	H290	May be corrosive to metals
Skin corrosion/irritation Category 1B	H314	Causes severe skin burns and eye damage
Serious eye damage/eye irritation Category 1	H318	Causes serious eye damage

Full text of H statements : see section 16

#### 2.2. GHS Label elements, including precautionary statements

##### GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Danger  
Hazard statements (GHS US) : H290 - May be corrosive to metals  
H314 - Causes severe skin burns and eye damage  
H318 - Causes serious eye damage  
Precautionary statements (GHS US) : P234 - Keep only in original container.  
P260 - Do not breathe mist, spray.  
P264 - Wash face, hands, any exposed skin thoroughly after handling.  
P280 - Wear eye protection, face protection, protective gloves, protective clothing.  
P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting.  
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse

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skin with water/shower.

P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 - 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, a doctor.

P321 - Specific treatment (see section 4 of this SDS, supplemental first aid instruction on this label).

P363 - Wash contaminated clothing before reuse.

P390 - Absorb spillage to prevent material-damage.

P405 - Store locked up.

P406 - Store in corrosive resistant container with a resistant inner liner.

P501 - Dispose of contents/container in accordance with local, regional, national and international regulations

### 2.3. Other hazards which do not result in classification

Other hazards which do not result in classification : Mix with water only. Do not mix with other chemicals. On contact with aluminum corrosion may occur and generate highly flammable hydrogen gas.

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	GHS US classification
Phosphoric acid	CAS-No.: 7664-38-2	30 – 40	Met. Corr. 1, H290 Skin Corr. 1B, H314 Eye Dam. 1, H318
citric acid	CAS-No.: 77-92-9	1 – 5	Skin Corr. 1, H314 Eye Dam. 1, H318

If the specific chemical identity and/or exact percentage of an ingredient is not specified, the information has been withheld as a trade secret.

Full text of hazard classes and H-statements : see section 16

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

First-aid measures general : Immediately call a poison center or doctor/physician. Call a physician immediately.  
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.  
First-aid measures after skin contact : Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician immediately.  
First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.  
First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Do not induce vomiting. Call a physician immediately.

### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after skin contact : Burns.  
Symptoms/effects after eye contact : Serious damage to eyes.  
Symptoms/effects after ingestion : Burns.

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### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

### 5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire : Toxic fumes may be released.

### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Use extinguishing media appropriate for surrounding fire.  
Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Do not breathe mist, spray, vapors.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material.  
Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Do not breathe mist, spray. For commercial and industrial use only by professionals trained in the field of HVACR. Do not spray on electrical connections. Wear personal protective equipment. Avoid contact with skin and eyes. Ensure good ventilation of the work station.  
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wash contaminated clothing before reuse.

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

Storage conditions : Keep out of reach of children. Store locked up. Keep container tightly closed. Store in original container. Store in a well-ventilated place. Protect container from physical damage. Tip: For storage on service truck, place container inside of plastic pail and immobilize pail.

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

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No additional information available

##### citric acid (77-92-9)

No additional information available

##### Phosphoric acid (7664-38-2)

###### USA - ACGIH - Occupational Exposure Limits

Local name	Phosphoric acid
ACGIH OEL TWA	1 mg/m <sup>3</sup>
ACGIH OEL STEL	3 mg/m <sup>3</sup>
Remark (ACGIH)	TLV® Basis: URT, eye, & skin irr
Regulatory reference	ACGIH 2021

###### USA - OSHA - Occupational Exposure Limits

Local name	Phosphoric acid
OSHA PEL (TWA) [1]	1 mg/m <sup>3</sup>
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1

#### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.  
Environmental exposure controls : Avoid release to the environment.

#### 8.3. Individual protection measures/Personal protective equipment

##### Hand protection:

Protective gloves

##### Eye protection:

Safety glasses

##### Skin and body protection:

Wear suitable protective clothing

##### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment.

##### Personal protective equipment symbol(s):



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### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Color	: green
Odor	: Odorless
Odor threshold	: No data available
pH	: 1
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: ≈ 260 °F
Flash point	: Not flammable.
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: 1.11
Solubility	: Soluble in water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

#### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

#### 10.5. Incompatible materials

Oxidizing agent. Strong bases. Sulfites. Metals. On contact with aluminum corrosion may occur and generate highly flammable hydrogen gas.

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified  
Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Not classified

#### citric acid (77-92-9)

LD50 dermal rat	> 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))
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ATE US (oral)	5400 mg/kg body weight
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Skin corrosion/irritation : Causes severe skin burns.

pH: 1

Serious eye damage/irritation : Causes serious eye damage.

pH: 1

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

Viscosity, kinematic : No data available

Symptoms/effects after skin contact : Burns.

Symptoms/effects after eye contact : Serious damage to eyes.

Symptoms/effects after ingestion : Burns.

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment. Before neutralization, the product may represent a danger to aquatic organisms.

#### citric acid (77-92-9)

LC50 - Fish [1]	440 – 760 mg/l (Equivalent or similar to OECD 203, 48 h, Leuciscus idus, Static system, Fresh water, Experimental value, Nominal concentration)
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#### 12.2. Persistence and degradability

#### citric acid (77-92-9)

Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.
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Biochemical oxygen demand (BOD)	0.42 g O <sub>2</sub> /g substance
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Chemical oxygen demand (COD)	0.728 g O <sub>2</sub> /g substance
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ThOD	0.686 g O <sub>2</sub> /g substance
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#### Phosphoric acid (7664-38-2)

Persistence and degradability	Biodegradability: not applicable.
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### 12.3. Bioaccumulative potential

#### citric acid (77-92-9)

Partition coefficient n-octanol/water (Log Pow) : -1.8 – -1.55 (Experimental value)

Bioaccumulative potential : Not bioaccumulative.

#### Phosphoric acid (7664-38-2)

Bioaccumulative potential : No test data of component(s) available.

### 12.4. Mobility in soil

#### citric acid (77-92-9)

Surface tension : No data available in the literature

Organic Carbon Normalized Adsorption Coefficient (Log Koc) : 1 (log Koc, SRC PCKOCWIN v2.0, Calculated value)

Ecology - soil : Highly mobile in soil.

#### Phosphoric acid (7664-38-2)

Ecology - soil : Highly mobile in soil.

### 12.5. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

## SECTION 14: Transport information

### 14.1. UN number

DOT NA No : UN1805

### 14.2. UN proper shipping name

Proper Shipping Name (DOT) : UN1805, PHOSPHORIC ACID SOLUTION, 8, III (LIMITED QUANTITY)

### 14.3. Transport hazard class(es)

#### DOT

Transport hazard class(es) (DOT) : 8 (LTD QTY)

Hazard labels (DOT) : 8, LTD QTY



### 14.4. Packing group

Packing group (DOT) : III

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### 14.5. Environmental hazards

Other information : No supplementary information available.

### 14.6. Special precautions for user

#### DOT

Transport regulations (DOT) : Limited Quantity: For inner packagings not over 5.0L (1.3 gallon) and packages not exceeding 30 kg (66 pounds) gross weight. Fully regulated: For packages over 5.0L (1.3 gallons). Factory package is not suitable for transport by air.

UN-No.(DOT) : UN1805

DOT Packaging Exceptions (49 CFR 173.xxx) : 154

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

All components of this product are listed as Active, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

citric acid	CAS-No. 77-92-9	1 – 5%
Phosphoric acid	CAS-No. 7664-38-2	30 – 40%

#### Phosphoric acid (7664-38-2)

CERCLA RQ 5000 lb

### 15.2. International regulations

#### CANADA

#### citric acid (77-92-9)

Listed on the Canadian DSL (Domestic Substances List) inventory.

#### Phosphoric acid (7664-38-2)

Listed on the Canadian DSL (Domestic Substances List) inventory.

#### EU-Regulations

No additional information available

#### National regulations

No additional information available

### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

Component	State or local regulations
Phosphoric acid(7664-38-2)	U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities; U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. – New York City – Right to Know Hazardous Substances List; U.S. - Pennsylvania - RTK (Right to Know) List



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### SECTION 16: Other information

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Revision date : 06/30/2021

Full text of H-phrases	
H290	May be corrosive to metals
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage

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