

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 11/26/2018 Revision date: 10/22/2025 Supersedes: 10/22/2025

#### **SECTION 1 Identification**

#### 1.1. Product identifier

Product form : Mixture
Product name : Liqui-Thaw Plus
Product code : 155-9195

#### 1.2. Other means of identification

No additional information available

#### 1.3. Recommended use of the chemical and restrictions on use

Use of the substance/mixture : De-icer

### 1.4. Supplier's details

American Cleaning Solutions 39-30 Review Avenue Long Island City, NY, 11101 T (718) 392-8080

#### 1.5. Emergency phone number

Emergency number : INFOTRAC: 800-535-5053

### **SECTION 2 Hazard Identification**

### 2.1. Classification of the substance or mixture

#### **GHS US classification**

Serious eye damage/eye irritation, Category 2A H319 Causes serious eye irritation. Full text of H statements : see section 16

#### 2.2. Label elements

#### **GHS US labeling**

Hazard pictograms (GHS US)



Signal word (GHS US) : Warning

Hazard statements (GHS US) : H319 - Causes serious eye irritation

Precautionary statements (GHS US) : P264 - Wash hands, forearms and face thoroughly after handling.

 ${\tt P280 - Wear \ protective \ gloves, \ protective \ clothing, \ eye \ protection, \ face \ protection, \ and \ hearing}$ 

protection.

 ${\tt P305+P351+P338-If\ in\ eyes:\ Rinse\ cautiously\ with\ water\ for\ several\ minutes.\ Remove\ contact}$ 

lenses, if present and easy to do. Continue rinsing

P337+P313 - If eye irritation persists: Get medical advice or attention.

#### 2.3. Hazards associated with known or reasonably anticipated uses

No additional information available

#### 2.4. Hazards not otherwise classified

No additional information available

10/22/2025 (Revision date) EN (English US) 1/10

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### 2.5. Unknown acute toxicity

No additional information available

## **SECTION 3 Composition/information on ingredients**

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	GHS US classification
Water	CAS-No.: 7732-18-5	50 – 70	Not classified
Calcium chloride	CAS-No.: 10043-52-4	30 – 45	Eye Irrit. 2A, H319
potassium chloride	CAS-No.: 7447-40-7	0-3	Not classified
calciumbromide, anhydrous	CAS-No.: 7789-41-5	0 – 2.6	Eye Dam. 1, H318
Sodium Chloride (Thickener, Component)	CAS-No.: 7647-14-5	0 – 2	Not classified

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

### **SECTION 4 First aid measures**

# 4.1. Description of necessary first-aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Allow affected person to breathe fresh air. Allow the victim to rest.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by

warm water rinse.

First-aid measures after eye contact : 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.

: Based on available data, the classification criteria are not met.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

#### 4.2. Most important symptoms/effects, acute and delayed

Potential Adverse human health effects and

symptoms

Symptoms/effects after eye contact : Causes serious eye irritation.

# 4.3. Indication of immediate medical attention and special treatment needed, if necessary

No additional information available

# **SECTION 5: Fire-fighting measures**

# 5.1. Suitable (and unsuitable) extinguishing media

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

Unsuitable extinguishing media : Do not use a heavy water stream.

#### 5.2. Specific hazards arising from the chemical

No additional information available

10/22/2025 (Revision date) EN (English US) 2/10

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

#### **SECTION 6 Accidental release measures**

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

#### For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

Environmental precautions : Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public

waters.

#### 6.2. Methods and materials for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect

spillage. Store away from other materials.

See Heading 8. Exposure controls and personal protection.

### **SECTION 7 Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work. Provide good ventilation in process area to prevent formation of

vapor

Hygiene measures : Wash hands and forearms thoroughly after handling.

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

Storage conditions : Keep only in the original container in a cool, well ventilated place away from heat, hot surfaces,

sparks, open flame and other ignition sources. No smoking. Keep container closed when not in

use.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

#### **SECTION 8 Exposure controls/personal protection**

#### 8.1. Control parameters

No additional information available

#### 8.2. Appropiate engineering controls

No additional information available

10/22/2025 (Revision date) EN (English US) 3/10

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

# 8.3. Individual protection measures, such as personal protective equipment

#### Personal protective equipment:

Avoid all unnecessary exposure.

#### Hand protection:

Wear protective gloves/eye protection/face protection protective gloves

#### Eye protection:

Chemical goggles or safety glasses

#### Respiratory protection:

Wear appropriate mask

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



#### Other information:

Do not eat, drink or smoke during use.

# **SECTION 9 Physical and chemical properties**

### 9.1. Basic physical and chemical properties

Physical state : Liquid
Appearance : Clear liquid.

Color : Colourless to light yellow

Odor : Odourless
Odor threshold : No data available
pH : 3.8 - 3.9
Melting point : No data available

Freezing point : No data available : No data available

Boiling point : 239 °F

Flash point : No data available Flammability (solid, gas) : Non flammable. Vapor pressure : No data available Relative vapor density at 20 °C : Same as water

Relative density : 1.33

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
Explosion limits : No data available
Particle characteristics : No data available

### 9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

### **SECTION 10 Stability and reactivity**

#### 10.1. Reactivity

No additional information available

10/22/2025 (Revision date) EN (English US) 4/10

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

# 10.2. Chemical stability

Stable under normal conditions. Not established.

# 10.3. Possibility of hazardous reactions

Not established.

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### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

Strong acids. Strong bases.

### 10.6. Hazardous decomposition products

Fume. Carbon monoxide. Carbon dioxide.

# **SECTION 11 Toxicological information**

# 11.1. Likely routes of exposure

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

Acute toxicity (inhalation) :	Not classified	
Calcium chloride (10043-52-4)		
LD50 oral rat	2301 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s))	
LD50 dermal rabbit	> 5000 mg/kg body weight (Other, 24 h, Rabbit, Male / female, Experimental value, Dermal)	
LC50 Inhalation - Rat	> 0.16 mg/l/4h (4 h, Rat, Inconclusive, insufficient data, Inhalation)	
ATE US (oral)	2301 mg/kg body weight	
Sodium Chloride (7647-14-5)		
LD50 oral rat	> 3980 mg/kg body weight (Rat, Experimental value, 20% aqueous solution, Oral)	
LD50 dermal rabbit	> 10000 mg/kg (Rabbit, Experimental value, Dermal)	
LC50 Inhalation - Rat	> 42 g/m³ (1 h, Rat, Male, Experimental value)	
potassium chloride (7447-40-7)		
LD50 oral rat	3020 mg/kg body weight (Rat, Female, Experimental value, Oral)	
ATE US (oral)	3020 mg/kg body weight	
calciumbromide, anhydrous (7789-41-5)		
LD50 oral rat	2210 mg/kg body weight (EPA OTS 798.1175, Rat, Male / female, Experimental value, Oral)	
ATE US (oral)	2210 mg/kg body weight	
Skin corrosion/irritation :	Not classified pH: 3.8 – 3.9	
Sodium Chloride (7647-14-5)		

10/22/2025 (Revision date)	EN (English US)	5/10
----------------------------	-----------------	------

6 – 7

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

рН	7
Serious eye damage/irritation	: Causes serious eye irritation. pH: 3.8 – 3.9
Sodium Chloride (7647-14-5)	
рН	6 – 7
potassium chloride (7447-40-7)	
рН	7
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
Calcium chloride (10043-52-4)	
Viscosity, kinematic	Not applicable (solid)
Sodium Chloride (7647-14-5)	
Viscosity, kinematic	Not applicable (solid)
potassium chloride (7447-40-7)	·
Viscosity, kinematic	Not applicable (solid)
Potential Adverse human health effects and	: Based on available data, the classification criteria are not met.
symptoms	

# **SECTION 12 Ecological information**

# 12.1. Ecotoxicity

Hazardous to the aquatic environment, short-term : Not classified

(acute)

Hazardous to the aquatic environment, long-term : Not classified

(chronic)

Calcium chloride (10043-52-4)		
LC50 - Fish [1]	4630 mg/l (EPA 600/4-90/027, 96 h, Pimephales promelas, Static system, Fresh water, Experimental value, Lethal)	
ErC50 algae	> 4000 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Experimental value, Growth rate)	
Sodium Chloride (7647-14-5)		
LC50 - Fish [1]	5840 mg/l (ASTM, 96 h, Lepomis macrochirus, Flow-through system, Fresh water, Experimental value, Lethal)	
potassium chloride (7447-40-7)		
LC50 - Fish [1]	880 mg/l (EPA 600/4-90/027, 96 h, Pimephales promelas, Static system, Fresh water, Experimental value, Nominal concentration)	

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

potassium chloride (7447-40-7)		
EC50 - Crustacea [1]	440 – 880 mg/l (EPA 600/4-90/027, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)	
ErC50 algae	> 100 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Nominal concentration)	
calciumbromide, anhydrous (7789-41-5)		
LC50 - Fish [1]	> 440 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Scophthalmus maximus, Static system, Salt water, Read-across, Locomotor effect)	
EC50 - Crustacea [1]	> 100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static	

# 12.2. Persistence and degradability

Liqui-Thaw Plus		
Persistence and degradability	Not established.	
Calcium chloride (10043-52-4)		
Persistence and degradability	Biodegradability: not applicable.	
Chemical oxygen demand (COD)	Not applicable (inorganic)	
ThOD	Not applicable (inorganic)	
Water (7732-18-5)		
Persistence and degradability	Rapidly degradable	
Sodium Chloride (7647-14-5)		
Persistence and degradability	Biodegradability: not applicable.	
Chemical oxygen demand (COD)	Not applicable (inorganic)	
ThOD	Not applicable (inorganic)	
potassium chloride (7447-40-7)		
Persistence and degradability	Biodegradability: not applicable.	
Chemical oxygen demand (COD)	Not applicable (inorganic)	
ThOD	Not applicable (inorganic)	
calciumbromide, anhydrous (7789-41-5)		
Persistence and degradability	Biodegradability: not applicable.	
Chemical oxygen demand (COD)	Not applicable (inorganic)	
ThOD	Not applicable (inorganic)	

# 12.3. Bioaccumulative potential

Liqui-Thaw Plus		
Bioaccumulative potential Not established.		
Calcium chloride (10043-52-4)		
Bioaccumulative potential	Bioaccumulation: not applicable.	

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Sodium Chloride (7647-14-5)		
Bioaccumulative potential	Not bioaccumulative.	
potassium chloride (7447-40-7)		
Bioaccumulative potential Not bioaccumulative.		
calciumbromide, anhydrous (7789-41-5)		
Bioaccumulative potential	Not bioaccumulative.	

# 12.4. Mobility in soil

Calcium chloride (10043-52-4)		
Surface tension	No data available in the literature	
Ecology - soil	No (test)data on mobility of the substance available.	
Sodium Chloride (7647-14-5)		
Surface tension	73.03 mN/m (23 °C, 14.5 g/l)	
Ecology - soil	No (test)data on mobility of the substance available.	
potassium chloride (7447-40-7)		
Surface tension	Data waiving	
Ecology - soil	Low potential for adsorption in soil.	
calciumbromide, anhydrous (7789-41-5)		
Ecology - soil	No (test)data on mobility of the substance available.	

# 12.5. Other adverse effects

Ozone : Not classified

Fluorinated greenhouse gases : No

Other information : Avoid release to the environment.

# **SECTION 13 Disposal considerations**

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecological information : Avoid release to the environment.

# **SECTION 14 Transport information**

### **14.1. UN number**

Not regulated for transport

# 14.2. UN Proper Shipping Name

Proper Shipping Name (DOT) : Not regulated Proper Shipping Name (TDG) : Not regulated Proper Shipping Name (IMDG) : Not regulated Proper Shipping Name (IATA) : Not regulated

10/22/2025 (Revision date) EN (English US) 8/10

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

## 14.3. Transport hazard class(es)

**DOT** 

Transport hazard class(es) (DOT) : Not regulated

**TDG** 

Transport hazard class(es) (TDG) : Not regulated

**IMDG** 

Transport hazard class(es) (IMDG) : Not regulated

IATA

Transport hazard class(es) (IATA) : Not regulated

14.4. Packing group

Packing group (DOT) : Not regulated Packing group (TDG) : Not regulated Packing group (IMDG) : Not regulated Packing group (IATA) : Not regulated

#### 14.5. Environmental hazards

Other information : No supplementary information available.

### 14.6. Transport in bulk

Not applicable

### 14.7. Special precautions for user

**DOT** 

Not regulated

**TDG** 

Not regulated

**IMDG** 

Not regulated

**IATA** 

Not regulated

# **SECTION 15 Regulatory information**

### 15.1. Federal regulations

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

Name	CAS-No.	Listing	Commercial status	Flags
Calcium chloride	10043-52-4	Present	Active	
Water	7732-18-5	Present	Active	
Sodium Chloride	7647-14-5	Present	Active	
potassium chloride	7447-40-7	Not present	-	
calciumbromide, anhydrous	7789-41-5	Not present	-	

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

## 15.2. International regulations

#### CANADA

### Water (7732-18-5)

Listed on the Canadian DSL (Domestic Substances List)

### Sodium Chloride (7647-14-5)

Listed on the Canadian DSL (Domestic Substances List)

#### **EU-Regulations**

No additional information available

#### **National regulations**

No additional information available

#### 15.3. State regulations

No additional information available

### **SECTION 16 Other information**

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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 Other information
 : None.

Full text of hazard classes and H-statements	
H318	Causes serious eye damage
H319	Causes serious eye irritation

Hazard Rating

Health : 1 Slight Hazard - Irritation or minor reversible injury possible

Flammability : 0 Minimal Hazard - Materials that will not burn

Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT

react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Personal protection : B - Safety glasses, Gloves

Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

10/22/2025 (Revision date) EN (English US) 10/10