



METER

SAFETY DATA SHEETS

ENGLISH

For translated versions, please go to the appropriate web page listed below:

METER Food

<https://www.metergroup.com/food/meter-safety-data-sheets/>

METER Environment

<https://www.metergroup.com/environment/meter-safety-data-sheets/>



METER

Safety Data Sheet

17.18 mol/kg Lithium Chloride (0.15 a_{ww} Verification Standard)

Last Reviewed/Revised: 4.2025

I – PRODUCT AND COMPANY IDENTIFICATION

Company: METER Group, Inc.
2365 NE Hopkins Court
Pullman, WA 99132 USA
509-332-2756

Formula: Lithium Chloride

Concentration: 17.18 mol/kg; 42.14%

Components: LiCl in H₂O

TSCA: Yes
STEL: N/A

TLV/TWA: Not Established
PEL: N/A

Toxicity: 4

II – HAZARD IDENTIFICATION

This product is harmful if swallowed, as classified by Acute Toxicity – Oral.

NFPA Ratings: Health: 4 Flammability: 0 Reactivity: 0



WARNING

III – COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS Number
Lithium Chloride	7447-41-8
Distilled Water	7732-18-5

IV – EMERGENCY FIRST AID PROCEDURES

CALL A PHYSICIAN

Inhalation: If uncomfortable, remove person to fresh air and keep in resting position.

Skin Contact: Wash exposed areas with plenty of water.

Eye Contact: Irrigate with plenty of water. Remove contact lenses, if any and easy to do. Continue rinsing.

Ingestion: Do not induce vomiting. Rinse mouth with water. Never give anything by mouth to an unconscious person.

V – FIRE FIGHTING MEASURES

Extinguishing Media: Use appropriate extinguishing media measures to local circumstances and environment.

Special Fire Fighting Procedures: Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face-piece operated in positive mode.

Auto Ignition Temperature: N/A

Lower Explosion Level: N/A

NFPA Rating: N/A

Toxic Gases Produced: Yes, HCl gas, LiOx gas

Unusual Fires and Explosion Hazards: N/A

VI – ACCIDENTAL RELEASE MEASURES

Personal Precautions: Ensure adequate ventilation, especially in confined areas. Avoid breathing vapors, mist, or gas. Evacuate personnel to safe areas. Use personal protective equipment. See Section VIII for recommended personal protection.

Environmental Precautions: Prevent contamination of soils, drains, or waterways. Do not flush into surface water or sanitary sewer system. See Section XII for additional ecological information.

In Case of Spillage or Discharge: Prevent further leakage and spillage if safe to do so. Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

Disposal of Spillage and Waste: Follow federal, state, and local regulations for waste.

EPA Hazardous Waste #: N/A.



METER

VII – HANDLING AND STORAGE

Handling: Observe good industrial hygiene practices. Use in well-ventilated areas.

Storage: Store in closed original container. Keep container tightly closed. Store in cool and dry place.

VIII – EXPOSURE CONTROL / PERSONAL PROTECTION

Ventilation: Local exhaust. Use in well-ventilated areas.

Respiratory Protection: Respiratory protection not required. For nuisance exposures, use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Personal Protection: If there is a risk of splashing, use goggles with side shields. Use proper protective gloves and avoid contact with skin and eyes.

Other: Lab coat/apron; vent hood.

IX – PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Colorless liquid
Odor:	Odorless
pH:	6.0
Molecular Weight:	42.39
Boiling Point:	Not specified
Vapor Pressure:	Not specified
Vapor Density:	Not specified
Freezing Point:	Not specified
Specific Gravity (H₂O=1):	Not specified
Solubility in Water:	Complete
Flash Point:	Not specified

X – STABILITY AND REACTIVITY

Stable: Stable under recommended storage and handling conditions.

Conditions to Avoid: None.

Materials to Avoid: Strong oxidizing agents, strong acids, and bromine trifluoride.

Hazardous Decomposition Products: Thermal decomposition can lead to release of irritating fumes and toxic gases. Hydrogen chloride, oxides of lithium.

Possibility of Hazardous Reactions: Can react quickly with oxidizers.

Polymerization: Hazardous polymerization does not occur.

Corrosivity: Corrosive to some metals.

XI – TOXICOLOGICAL INFORMATION

Inhalation: May cause respiratory tract irritation. Ensure supply of fresh air.

Skin Contact: Possible skin irritation.

Eye Contact: Splashes in the eyes may cause irritation, redness, and pain. Rinse immediately and thoroughly with plenty of water.

Ingestion: May cause drowsiness or dizziness. Ingestion may cause irritation and burns of the upper digestive tract, as well as nausea, vomiting, headache, and coughing.

Health Warnings: Effects may be delayed. Oral (rat) LD50: 526 mg/kg, Dermal (rat) LD50: 1488 mg/kg.

Carcinogenicity: NTP: No IARC: No ZLIST: No OSHA Reg: No

XII – ECOLOGICAL INFORMATION (NONMANDATORY)

Ecological Information: No specific data or information available regarding environmental impact. Regarded as having acute toxicity to aquatic organisms.

Mobility: Soluble in water. Predicted to have high mobility in soil.



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XIII – DISPOSAL CONSIDERATIONS (NONMANDATORY)

Disposal Methods: Disposal should be in accordance with the principles of Duty of Care observing local and national regulations.

Relevant Information: Keep out of drains, sewers, ditches, and waterways.

Contaminated Packaging: Empty containers must be triple rinsed prior to disposal.

XIV – TRANSPORT INFORMATION (NONMANDATORY)

General: Goods are not regulated, or not dangerous, or are not hazardous, or not restricted for transportation by IATA.

XV – REGULATORY INFORMATION (NONMANDATORY)

FEDERAL REGULATIONS

TSCA

CAS# 7447-41-8 and 7732-18-5 are listed in the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under Chemical Test Rules.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rules

None of the chemicals in this material have a SNUR under TSCA.

SARA

Section 302 (RQ)

None of the chemicals in this material have an RQ.

Section 302 (TPQ)

None of the chemicals in this product have a TPQ.

SARA Codes

None.

Section 313

No chemicals are reportable under Section 313.

Clean Air Act

This material does not contain any hazardous air pollutants. This material does not contain any Class I Ozone-Depleting Substances. This material does not contain any Class II Ozone-Depleting Substances.

Clean Water Act

None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA

OSHA does not consider any of the chemicals in this product highly hazardous.


STATES REGULATIONS

CAS # 7447-41-8 and CAS# 7732-18-5 are not present on state lists from CA, PA, MN, MA, FL, or NJ.

California No Significant Risk Level: None of the chemicals in this product are listed.

INTERNATIONAL REGULATIONS

European Labeling in Accordance with EC Directives

Hazard Symbols: GHS Health Pictogram  **WARNING**

Risk Phrases: H302 Harmful if swallowed. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation.

Safety Phrases: P261 Avoid inhalation of vapor. P305 + P351 + P338 IN CONTACT WITH THE EYES: Rinse gently with water for a few minutes. Remove existing contact lenses if possible. Continue rinsing.

WGK (Water Danger / Protection)

WGK 1. CAS# 7447-41-8 and 7732-18-5

Canada

CAS# 7447-41-8 and 7732-18-5 are listed on Canada's DSL List.

CAS# 7447-41-8 and 7732-18-5 are not listed on Canada's Ingredient Disclosure List.



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XVI – OTHER INFORMATION

Information Sources: Product classified according to CHIP3 regulations. (The Chemicals Hazard Information and Packaging for Supply Regulations 2002).

NOTICE

The foregoing data has been compiled for safety information only and does not form part of any selling specification. Information contained in this data sheet is to the best of METER Group's knowledge correct at the time of publication. Customers should always satisfy for themselves that their product is entirely suitable for their purpose under their conditions of use and in compliance with current regulations. For any further information, please contact the supplier.



METER

Safety Data Sheet

13.41 mol/kg Lithium Chloride (0.25 *a* Verification Standard)

Last Reviewed/Revised: 4.2025

I – PRODUCT AND COMPANY IDENTIFICATION

Company: METER Group, Inc.
2365 NE Hopkins Court
Pullman, WA 99132 USA
509-332-2756
Formula: Lithium Chloride
Concentration: 13.41 mol/kg; 36.24%
Components: LiCl in H₂O

TSCA: Yes
STEL: N/A

TLV/TWA: Not Established
PEL: N/A

Toxicity: 4

II – HAZARD IDENTIFICATION

This product is harmful if swallowed, as classified by Acute Toxicity – Oral.

NFPA Ratings: Health: 4 Flammability: 0 Reactivity: 0



WARNING

III – COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS Number
Lithium Chloride	7447-41-8
Distilled Water	7732-18-5

IV – EMERGENCY FIRST AID PROCEDURES

CALL A PHYSICIAN

Inhalation: If uncomfortable, remove person to fresh air and keep in resting position.

Skin Contact: Wash exposed areas with plenty of water.

Eye Contact: Irrigate with plenty of water. Remove contact lenses, if any and easy to do. Continue rinsing.

Ingestion: Do not induce vomiting. Rinse mouth with water. Never give anything by mouth to an unconscious person.

V – FIRE FIGHTING MEASURES

Extinguishing Media: Use appropriate extinguishing media measures to local circumstances and environment.

Special Fire Fighting Procedures: Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face-piece operated in positive mode.

Auto Ignition Temperature: N/A

Lower Explosion Level: N/A

NFPA Rating: N/A

Toxic Gases Produced: Yes, HCl gas, LiOx gas

Unusual Fires and Explosion Hazards: N/A

VI – ACCIDENTAL RELEASE MEASURES

Personal Precautions: Ensure adequate ventilation, especially in confined areas. Avoid breathing vapors, mist, or gas. Evacuate personnel to safe areas. Use personal protective equipment. See Section VIII for recommended personal protection.

Environmental Precautions: Prevent contamination of soils, drains, or waterways. Do not flush into surface water or sanitary sewer system. See Section XII for additional ecological information.

In Case of Spillage or Discharge: Prevent further leakage and spillage if safe to do so. Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

Disposal of Spillage and Waste: Follow federal, state, and local regulations for waste.

EPA Hazardous Waste #: N/A.



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VII – HANDLING AND STORAGE

Handling: Observe good industrial hygiene practices. Use in well-ventilated areas.

Storage: Store in closed original container. Keep container tightly closed. Store in cool and dry place.

VIII – EXPOSURE CONTROL / PERSONAL PROTECTION

Ventilation: Local exhaust. Use in well-ventilated areas.

Respiratory Protection: Respiratory protection not required. For nuisance exposures, use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Personal Protection: If there is a risk of splashing, use goggles with side shields. Use proper protective gloves and avoid contact with skin and eyes.

Other: Lab coat/apron; vent hood.

IX – PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Colorless liquid
Odor:	Odorless
pH:	6.0
Molecular Weight:	42.39
Boiling Point:	Not specified
Vapor Pressure:	Not specified
Vapor Density:	Not specified
Freezing Point:	Not specified
Specific Gravity (H₂O=1):	Not specified
Solubility in Water:	Complete
Flash Point:	Not specified

X – STABILITY AND REACTIVITY

Stable: Stable under recommended storage and handling conditions.

Conditions to Avoid: None.

Materials to Avoid: Strong oxidizing agents, strong acids, and bromine trifluoride.

Hazardous Decomposition Products: Thermal decomposition can lead to release of irritating fumes and toxic gases. Hydrogen chloride, oxides of lithium.

Possibility of Hazardous Reactions: Can react quickly with oxidizers.

Polymerization: Hazardous polymerization does not occur.

Corrosivity: Corrosive to some metals.

XI – TOXICOLOGICAL INFORMATION

Inhalation: May cause respiratory tract irritation. Ensure supply of fresh air.

Skin Contact: Possible skin irritation.

Eye Contact: Splashes in the eyes may cause irritation, redness, and pain. Rinse immediately and thoroughly with plenty of water.

Ingestion: May cause drowsiness or dizziness. Ingestion may cause irritation and burns of the upper digestive tract, as well as nausea, vomiting, headache, and coughing.

Health Warnings: Effects may be delayed. Oral (rat) LD50: 526 mg/kg, Dermal (rat) LD50: 1488 mg/kg.

Carcinogenicity: NTP: No IARC: No ZLIST: No OSHA Reg: No

XII – ECOLOGICAL INFORMATION (NONMANDATORY)

Ecological Information: No specific data or information available regarding environmental impact. Regarded as having acute toxicity to aquatic organisms.

Mobility: Soluble in water. Predicted to have high mobility in soil.



METER

XIII – DISPOSAL CONSIDERATIONS (NONMANDATORY)

Disposal Methods: Disposal should be in accordance with the principles of Duty of Care observing local and national regulations.

Relevant Information: Keep out of drains, sewers, ditches, and waterways.

Contaminated Packaging: Empty containers must be triple rinsed prior to disposal.

XIV – TRANSPORT INFORMATION (NONMANDATORY)

General: Goods are not regulated, or not dangerous, or are not hazardous, or not restricted for transportation by IATA.

XV – REGULATORY INFORMATION (NONMANDATORY)

FEDERAL REGULATIONS

TSCA

CAS# 7447-41-8 and 7732-18-5 are listed in the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under Chemical Test Rules.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rules

None of the chemicals in this material have a SNUR under TSCA.

SARA

Section 302 (RQ)

None of the chemicals in this material have an RQ.

Section 302 (TPQ)

None of the chemicals in this product have a TPQ.

SARA Codes

None.

Section 313

No chemicals are reportable under Section 313.

Clean Air Act

This material does not contain any hazardous air pollutants. This material does not contain any Class I Ozone-Depleting Substances. This material does not contain any Class II Ozone-Depleting Substances.

Clean Water Act

None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA

OSHA does not consider any of the chemicals in this product highly hazardous.


STATES REGULATIONS

CAS # 7447-41-8 and CAS# 7732-18-5 are not present on state lists from CA, PA, MN, MA, FL, or NJ.

California No Significant Risk Level: None of the chemicals in this product are listed.

INTERNATIONAL REGULATIONS

European Labeling in Accordance with EC Directives

Hazard Symbols: GHS Health Pictogram.  **WARNING**

Risk Phrases: H302 Harmful if swallowed. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation.

Safety Phrases: P261 Avoid inhalation of vapor. P305 + P351 + P338 IN CONTACT WITH THE EYES: Rinse gently with water for a few minutes. Remove existing contact lenses if possible. Continue rinsing.

WGK (Water Danger / Protection)

WGK 1. CAS# 7447-41-8 and 7732-18-5

Canada

CAS# 7447-41-8 and 7732-18-5 are listed on Canada's DSL List.

CAS# 7447-41-8 and 7732-18-5 are not listed on Canada's Ingredient Disclosure List.



METER

XVI – OTHER INFORMATION

Information Sources: Product classified according to CHIP3 regulations. (The Chemicals Hazard Information and Packaging for Supply Regulations 2002).

NOTICE

The foregoing data has been compiled for safety information only and does not form part of any selling specification. Information contained in this data sheet is to the best of METER Group's knowledge correct at the time of publication. Customers should always satisfy for themselves that their product is entirely suitable for their purpose under their conditions of use and in compliance with current regulations. For any further information, please contact the supplier.



METER

Safety Data Sheet

8.57 mol/kg Lithium Chloride (0.50 *a_w* Verification Standard)

Last Reviewed/Revised: 4.2025

I – PRODUCT AND COMPANY IDENTIFICATION

Company: METER Group, Inc.
2365 NE Hopkins Court
Pullman, WA 99163 USA
509-332-2756

Formula: Lithium Chloride

Concentration: 8.57 mol/kg; 26.65%

Components: LiCl in H₂O

TSCA: Yes
STEL: N/A

TLV/TWA: Not Established
PEL: N/A

Toxicity: 4

II – HAZARD IDENTIFICATION

This product is harmful if swallowed, as classified by Acute Toxicity – Oral.

NFPA Ratings: Health: 4 Flammability: 0 Reactivity: 0



WARNING

III – COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number
Lithium chloride	7447-41-8
Distilled water	7732-18-5

IV – EMERGENCY FIRST AID PROCEDURE

CALL A PHYSICIAN

Inhalation: If uncomfortable, remove person to fresh air and keep in resting position.

Skin Contact: Wash exposed areas with plenty of water.

Eye Contact: Irrigate with plenty of water. Remove contact lenses, if any and easy to do. Continue rinsing.

Ingestion: Do not induce vomiting. Rinse mouth with water. Never give anything by mouth to an unconscious person.

V – FIRE FIGHTING MEASURES

Extinguishing Media: Use appropriate extinguishing media measures to circumstances and environment.

Special Fire Fighting Procedures: Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face-piece operated in positive mode.

Auto Ignition Temperature: N/A

Lower Explosion Level: N/A

NFPA Rating: N/A

Toxic Gases Produced: Yes, HCl gas, LiOx gas

Unusual Fires and Explosion Hazards: N/A

VI – ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use personal protective equipment.

Environmental Precautions: Contain spill. Prevent contamination of soil, drains, and surface water.

In Case of Spillage or Discharge: Soak up with inert absorbent material. Keep in suitable closed containers for disposal.

Disposal of Spillage and Waste: Follow federal, state, and local regulations for waste.

EPA Hazardous Waste #: N/A.



METER

VII – HANDLING AND STORAGE

Handling: Observe good industrial hygiene practices. Use in well-ventilated areas.

Storage: Store in closed original container. Keep container tightly closed. Store in cool and dry place.

VIII – EXPOSURE CONTROL/PERSONAL PROTECTION

Ventilation: Local exhaust. Use in well-ventilated areas.

Respiratory Protection: Respiratory protection not required. For nuisance exposures, use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Personal Protection: If there is a risk of splashing, use goggles with side shields. Use proper protective gloves and avoid contact with skin and eyes.

Other: Lab coat/apron; vent hood.

IX – PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Colorless liquid
Odor:	Odorless
pH:	6.0
Molecular Weight:	42.39
Boiling Point:	Not specified
Vapor Pressure:	Not specified
Vapor Density:	Not specified
Freezing Point:	Not specified
Specific Gravity (H₂O=1):	Not specified
Solubility in Water:	Complete
Flash Point:	Not specified

X – STABILITY AND REACTIVITY

Stable: Stable under recommended storage and handling conditions.

Conditions to Avoid: None.

Materials to Avoid: Strong oxidizing agents, strong acids, and bromine trifluoride.

Hazardous Decomposition Products: Thermal decomposition can lead to release of irritating fumes and toxic gases. Hydrogen chloride, oxides of lithium.

Possibility of Hazardous Reactions: Can react quickly with oxidizers.

Polymerization: Hazardous polymerization does not occur.

Corrosivity: Corrosive to some metals.

XI – TOXICOLOGICAL INFORMATION

Inhalation: May cause respiratory tract irritation. Ensure supply of fresh air.

Skin Contact: May cause skin irritation.

Eye Contact: Splashes in the eyes may cause irritation, redness, and pain. Rinse immediately and thoroughly with plenty of water.

Ingestion: May cause drowsiness or dizziness. Ingestion may cause irritation and burns of the upper digestive tract, as well as nausea, vomiting, headache, and coughing.

Health Warnings: Effects may be delayed. Oral (rat) LD50: 526 mg/kg, Dermal (rat) LD50: 1488 mg/kg.

Carcinogenicity: NTP: No IARC: No ZLIST: No OSHA Reg: No

XII – ECOLOGICAL INFORMATION (NONMANDATORY)

Ecological Information: No specific data or information available regarding environmental impact. Regarded as having low toxicity to aquatic organisms.

Mobility: Soluble in water. Predicted to have high mobility in soil.



METER

XIII – DISPOSAL CONSIDERATIONS (NONMANDATORY)

Disposal Methods: Disposal should be in accordance with the principles of Duty of Care observing local and national regulations.

Relevant Information: Keep out of drains, sewers, ditches, and waterways.

Contaminated Packaging: Empty containers must be triple rinsed prior to disposal.

XIV – TRANSPORT INFORMATION (NONMANDATORY)

General: Goods are not regulated, or not dangerous, or are not hazardous, or not restricted for transportation by IATA.

XV – REGULATORY INFORMATION (NONMANDATORY)

FEDERAL REGULATIONS

TSCA

CAS# 7447-41-8 and 7732-18-5 are listed on the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

SARA

Section 302 (RQ)

None of the chemicals in this material have an RQ.

Section 302 (TPQ)

None of the chemicals in this product have a TPQ.

SARA Codes

None.

Section 313

No chemicals are reportable under Section 313.

Clean Air Act

This material does not contain any hazardous air pollutants. This material does not contain any Class I Ozone-Depleting Substances. This material does not contain any Class II Ozone-Depleting Substances.

Clean Water Act

None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA

OSHA does not consider any of the chemicals in this product highly hazardous.


STATE REGULATIONS

CAS# 7447-41-8 and 7732-18-5 are not present on state lists from CA, PA, MN, MA, FL, or NJ.

California No Significant Risk Level: None of the chemicals in this product are listed.

INTERNATIONAL REGULATIONS

European Labeling in Accordance with EC Directives

Hazard Symbols: GHS Health Pictogram  **WARNING**

Risk Phrases: H302 Harmful if swallowed. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation.

Safety Phrases: P261 Avoid inhalation of vapor. P305 + P351 + P338 IN CONTACT WITH THE EYES: Rinse gently with water for a few minutes. Remove existing contact lenses if possible. Continue rinsing.

WGK (Water Danger/Protection)

WGK 1. CAS# 7447-41-8 and 7732-18-5

Canada

CAS# 7447-41-8 and 7732-18-5 are listed on Canada's DSL List.

CAS# 7447-41-8 and 7732-18-5 are not listed on Canada's Ingredient Disclosure List



METER

XVI – OTHER INFORMATION

Information Sources: Product classified according to CHIP3 regulations. (The Chemicals Hazard Information and Packaging for Supply Regulations 2002).

NOTICE

The foregoing data has been compiled for safety information only and does not form part of any selling specification. Information contained in this data sheet is to the best of METER Group's knowledge correct at the time of publication. Customers should always satisfy for themselves that their product is entirely suitable for their purpose under their conditions of use and in compliance with current regulations. For any further information, please contact the supplier.



METER

Safety Data Sheet

6.00 mol/kg Sodium Chloride (0.76 a_w Verification Standard)

Last Reviewed/Revised: 4.2025

I – PRODUCT AND COMPANY IDENTIFICATION

Company: METER Group, Inc.
2365 NE Hopkins Court
Pullman, WA 99163 USA
509-332-2756

Formula: Sodium Chloride

Concentration: 6.00 mol/kg; 25.96%

Components: NaCl in H₂O

TSCA: Yes

STEL: N/A

TLV/TWA: Not Established

PEL: N/A

Toxicity: N/A

II – HAZARD IDENTIFICATION

This chemical is considered nonhazardous according to GHS classifications for the Hazard Communication Standard. Prudent laboratory practices should still be observed.

NFPA Ratings: Health: 1 Flammability: 0 Reactivity: 0

III – COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number
Sodium chloride	7647-14-5
Distilled water	7732-18-5

IV – EMERGENCY FIRST AID PROCEDURE

CALL A PHYSICIAN

Inhalation: If uncomfortable, remove person to fresh air and keep in resting position.

Skin Contact: Wash exposed areas with plenty of water.

Eye Contact: Irrigate with plenty of water. Remove contact lenses, if any and easy to do. Continue rinsing.

Ingestion: Do not induce vomiting. Rinse mouth with water. Never give anything by mouth to an unconscious person.

V – FIRE FIGHTING MEASURES

Extinguishing Media: Use appropriate extinguishing media measures to local circumstances and environment.

Special Fire Fighting Procedures: Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face-piece operated in positive mode.

Auto Ignition Temperature: N/A

Toxic Gases Produced: N/A

Lower Explosion Level: N/A

Unusual Fires and Explosion Hazards: N/A

NFPA Rating: N/A

VI – ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use personal protective equipment.

Environmental Precautions: Contain spill. Prevent contamination of soil, drains, and surface water.

In Case of Spillage or Discharge: Soak up with inert absorbent material. Keep in suitable closed containers for disposal.

Disposal of Spillage and Waste: Follow federal, state, and local regulations for waste.

EPA Hazardous Waste #: N/A.

VII – HANDLING AND STORAGE

Handling: Observe good industrial hygiene practices. Use in well-ventilated areas.

Storage: Store in closed original container. Keep container tightly closed. Store in cool and dry place.



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VIII – EXPOSURE CONTROL/PERSONAL PROTECTION

Ventilation: Local exhaust.

Respiratory Protection: Respiratory protection not required. For nuisance exposures, use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Personal Protection: If there is a risk of splashing, use goggles with side shields. Use proper protective gloves and avoid contact with skin and eyes.

Other: Lab coat/apron.

IX – PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Colorless liquid
Odor:	Odorless
pH:	7.0
Molecular Weight:	58.44
Melting Point:	Not specified
Boiling Point:	Not specified
Vapor Pressure:	Not specified
Vapor Density:	Not specified
Specific Gravity (H₂O=1):	Not specified
Solubility in Water:	Not specified
Flash Point:	Not specified

X – STABILITY AND REACTIVITY

Stable: Stable under recommended storage and handling conditions.

Conditions to Avoid: Strong oxidizers, strong acids.

Materials to Avoid: Metals and acids.

Hazardous Decomposition Products: Hydrogen chloride, chlorine, and oxides of sodium.

Possibility of Hazardous Reactions: No information available.

Polymerization: Hazardous polymerization does not occur.

Corrosivity: Corrosive to some metals.

XI – TOXICOLOGICAL INFORMATION

Inhalation: May cause respiratory tract irritation. Ensure supply of fresh air.

Skin Contact: May cause skin irritation.

Eye Contact: Splashes in the eyes may cause irritation, redness, and pain. Rinse immediately and thoroughly with plenty of water.

Ingestion: May cause gastrointestinal irritation with nausea, vomiting, and diarrhea. May cause gastric disturbances and electrolytic imbalance.

Health Warnings: Ingestion may cause disturbance of body electrolyte balance. Effects may be delayed. Oral (rat)
LD50: 3000 mg/kg

Carcinogenicity: NTP: No IARC: No ZLIST: No OSHA Reg: No

XII – ECOLOGICAL INFORMATION (NONMANDATORY)

Ecological Information: No specific data or information available regarding environmental impact. Regarded as having low toxicity to aquatic organisms.

Mobility: Soluble in water. Predicted to have high mobility in soil.

XIII – DISPOSAL CONSIDERATIONS (NONMANDATORY)

Disposal Methods: Disposal should be in accordance with the principles of Duty of Care observing local and national regulations.

Relevant Information: Keep out of drains, sewers, ditches, and waterways.

Contaminated Packaging: Empty containers must be triple rinsed prior to disposal.

XIV – TRANSPORT INFORMATION (NONMANDATORY)

General: Goods are not regulated, or not dangerous, or are not hazardous, or not restricted for transportation by IATA.



METER

XV – REGULATORY INFORMATION (NONMANDATORY)

FEDERAL REGULATIONS

TSCA

CAS# 7647-14-5 and 7732-18-5 are listed on the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

SARA

Section 302 (RQ)

None of the chemicals in this material have an RQ.

Section 302 (TPQ)

None of the chemicals in this product have a TPQ.

SARA Codes

None.

Section 313

No chemicals are reportable under Section 313.

Clean Air Act

This material does not contain any hazardous air pollutants. This material does not contain any Class I Ozone-Depleting Substances. This material does not contain any Class II Ozone-Depleting Substances.

Clean Water Act

None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA

OSHA does not consider any of the chemicals in this product highly hazardous.

STATE REGULATIONS

CAS# 7647-14-5 and 7732-18-5 are not present on state lists from CA, PA, MN, MA, FL, or NJ.

California No Significant Risk Level: None of the chemicals in this product are listed.

INTERNATIONAL REGULATIONS

European Labeling in Accordance with EC Directives

Hazard Symbols: None.

Risk Phrases: Not available.

Safety Phrases: S 24 Avoid contact with skin. S 25 Avoid contact with eyes.

WGK (Water Danger/Protection)

WGK 1. CAS# 7647-14-5 and 7732-18-5

Canada

CAS# 7647-14-5 or 7732-18-5 are listed on Canada's DSL List.

CAS# 7647-14-5 or 7732-18-5 are not listed on Canada's Ingredient Disclosure List.

XVI – OTHER INFORMATION

Information Sources: Product classified according to CHIP3 regulations. (The Chemicals Hazard Information and Packaging for Supply Regulations 2002).

NOTICE

The foregoing data has been compiled for safety information only and does not form part of any selling specification. Information contained in this data sheet is to the best of METER Group's knowledge correct at the time of publication. Customers should always satisfy for themselves that their product is entirely suitable for their purpose under their conditions of use and in compliance with current regulations. For any further information, please contact the supplier.



METER

Safety Data Sheet

2.33 mol/kg Sodium Chloride (0.92 a_w Verification Standard)

Last Reviewed/Revised: 4.2025

I – PRODUCT AND COMPANY IDENTIFICATION

Company: METER Group, Inc.
2365 NE Hopkins Court
Pullman, WA 99132 USA
509-332-2756

Formula: Sodium Chloride

Concentration: 2.33 mol/kg; 12.00%

Components: NaCl in H₂O

TSCA: Yes
STEL: N/A

TLV/TWA: Not Established
PEL: N/A

Toxicity: N/A

II – HAZARD IDENTIFICATION

This chemical is considered nonhazardous according to GHS classification for the Hazard Communication Standard. Prudent laboratory practices should still be observed.

NFPA Ratings: Health: 1 Flammability: 0 Reactivity: 0

III – COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS Number
Sodium chloride	7647-14-5
Distilled water	7732-18-5

IV – EMERGENCY FIRST AID PROCEDURES

CALL A PHYSICIAN

Inhalation: If uncomfortable, remove person to fresh air and keep in resting position.

Skin Contact: Wash exposed areas with plenty of water.

Eye Contact: Irrigate with plenty of water. Remove contact lenses, if any and easy to do. Continue rinsing.

Ingestion: Do not induce vomiting. Rinse mouth with water. Never give anything by mouth to an unconscious person.

V – FIRE FIGHTING MEASURES

Extinguishing Media: Use appropriate extinguishing media measures to local circumstances and environment.

Special Fire Fighting Procedures: Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face-piece operated in positive mode.

Auto Ignition Temperature: N/A

Lower Explosion Level: N/A

NFPA Rating: N/A

Toxic Gases Produced: N/A

Unusual Fires and Explosion Hazards: N/A

VI – ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use personal protective equipment.

Environmental Precautions: Contain spill. Prevent contamination of soil, drains, and surface water.

In Case of Spillage or Discharge: Soak up with inert absorbent material. Keep in suitable closed containers for disposal.

Disposal of Spillage and Waste: Follow federal, state, and local regulations for waste.

EPA Hazardous Waste #: N/A.



METER

VII – HANDLING AND STORAGE

Handling: Observe good industrial hygiene practices. Use in well-ventilated areas.

Storage: Store in closed original container. Keep container tightly closed. Store in cool and dry place.

VIII – EXPOSURE CONTROL / PERSONAL PROTECTION

Ventilation: Local Exhaust. Use in well ventilated area.

Respiratory Protection: Respiratory protection not required. For nuisance exposures, use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Personal Protection: If there is a risk of splashing, use goggles with side shields. Use proper protective gloves and avoid contact with skin and eyes.

Other: Lab coat/apron.

IX – PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Colorless liquid
Odor:	Odorless
pH:	7.0
Molecular Weight:	58.44
Boiling Point:	Not specified
Vapor Pressure:	Not specified
Vapor Density:	Not specified
Freezing Point:	Not specified
Specific Gravity (H₂O=1):	Not specified
Solubility in Water:	Not specified
Flash Point:	Not specified

X – STABILITY AND REACTIVITY

Stable: Stable under recommended storage and handling conditions.

Conditions to Avoid: Strong oxidizers, strong acids.

Materials to Avoid: Metals and acids.

Hazardous Decomposition Products: Hydrogen chloride, chlorine, oxides of sodium.

Possibility of Hazardous Reactions: No information available.

Polymerization: Hazardous polymerization does not occur.

Corrosivity: Corrosive to some metals.

XI – TOXICOLOGICAL INFORMATION

Inhalation: May cause respiratory tract infection. Ensure supply of fresh air.

Skin Contact: May cause skin irritation.

Eye Contact: Splashes in the eyes may cause irritation, redness, and pain. Rinse immediately and thoroughly with plenty of water.

Ingestion: May cause gastrointestinal irritation with nausea, vomiting, and diarrhea. May cause gastric disturbances and electrolytic imbalance.

Health Warnings: Ingestion may cause disturbance of body electrolyte balance. Effects may be delayed. Oral (rat) LD50: 3000 mg/kg.

Carcinogenicity: NTP: No IARC: No ZLIST: No OSHA Reg: No

XII – ECOLOGICAL INFORMATION (NONMANDATORY)

Ecological Information: No specific data or information available regarding environmental impact. Regarded as having low toxicity to aquatic organisms.

Mobility: Soluble in water. Predicted to have high mobility in soil.



METER

XIII – DISPOSAL CONSIDERATIONS (NONMANDATORY)

Disposal Methods: Disposal should be in accordance with the principles of Duty of Care observing local and national regulations.

Relevant Information: Keep out of drains, sewers, ditches, and waterways.

Contaminated Packaging: Empty containers must be triple rinsed prior to disposal.

XIV – TRANSPORT INFORMATION (NONMANDATORY)

General: Goods are not regulated, or not dangerous, or are not hazardous, or not restricted for transportation by IATA.

XV – REGULATORY INFORMATION (NONMANDATORY)

FEDERAL REGULATIONS

TSCA

CAS# 7647-14-5 and 7732-18-5 are listed in the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under Chemical Test Rules.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rules

None of the chemicals in this material have a SNUR under TSCA.

SARA

Section 302 (RQ)

None of the chemicals in this material have an RQ.

Section 302 (TPQ)

None of the chemicals in this product have a TPQ.

SARA Codes

None.

Section 313

No chemicals are reportable under Section 313.

Clean Air Act

This material does not contain any hazardous air pollutants. This material does not contain any Class I Ozone-Depleting Substances. This material does not contain any Class II Ozone-Depleting Substances.

Clean Water Act

None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA

OSHA does not consider any of the chemicals in this product highly hazardous.

STATE REGULATIONS

CAS# 7647-14-5 and 7732-18-5 are not present on state lists from CA, PA, MN, MA, FL, or NJ.

California No Significant Risk Level: None of the chemicals in this product are listed.

INTERNATIONAL REGULATIONS

European Labeling in Accordance with EC Directives

Hazard Symbols: None.

Risk Phrases: Not available.

Safety Phrases: S24 Avoid contact with skin. S25 Avoid contact with eyes.

WGK (Water Danger / Protection)

WGK 1. CAS# 7647-14-5 and 7732-18-5

Canada

CAS# 7647-14-5 or 7732-18-5 are listed on Canada's DSL List.

CAS# 7647-14-5 or 7732-18-5 are not listed on Canada's Ingredient Disclosure List.

**METER****XVI – OTHER INFORMATION**

Information Sources: Product classified according to CHIP3 regulations. (The Chemicals Hazard Information and Packaging for Supply Regulations 2002).

NOTICE

The foregoing data has been compiled for safety information only and does not form part of any selling specification. Information contained in this data sheet is to the best of METER Group's knowledge correct at the time of publication. Customers should always satisfy for themselves that their product is entirely suitable for their purpose under their conditions of use and in compliance with current regulations. For any further information, please contact the supplier.



METER

Safety Data Sheet

0.50 mol/kg Potassium Chloride (0.984 *a_w* Verification Standard)

Last Reviewed/Revised: 4.2025

I – PRODUCT AND COMPANY IDENTIFICATION

Company: METER Group, Inc.
2365 NE Hopkins Court
Pullman, WA 99163 USA
509-332-2756

Formula: Potassium Chloride

Concentration: 0.50 mol/kg; 3.59%

Components: KCl in H₂O

TSCA: Yes
STEL: N/A

TLV/TWA: Not Established
PEL: N/A

Toxicity: N/A

II – HAZARD IDENTIFICATION

This chemical is considered nonhazardous according to GHS classifications for the Hazard Communication Standard. Prudent laboratory practices should still be observed.

NFPA Ratings: Health: 1 Flammability: 0 Reactivity: 0

III – COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number
Potassium chloride	7447-40-7
Distilled water	7732-18-5

IV – EMERGENCY FIRST AID PROCEDURE

CALL A PHYSICIAN

Inhalation: If uncomfortable, remove person to fresh air and keep in resting position.

Skin Contact: Wash exposed areas with plenty of water.

Eye Contact: Irrigate with plenty of water. Remove contact lenses, if any and easy to do. Continue rinsing.

Ingestion: Do not induce vomiting. Rinse mouth with water. Never give anything by mouth to an unconscious person.

V – FIRE FIGHTING MEASURES

Extinguishing Media: Use appropriate extinguishing media measures to local circumstances and environment.

Special Fire Fighting Procedures: Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face-piece operated in positive mode.

Auto Ignition Temperature: N/A
Toxic Gases Produced: N/A

Lower Explosion Level: N/A
Unusual Fires Explosion Hazards: N/A

NFPA Rating: N/A

VI – ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use personal protective equipment.

Environmental Precautions: Contain spill. Prevent contamination of soil, drains, and surface water.

In Case of Spillage or Discharge: Soak up with inert absorbent material. Keep in suitable closed containers for disposal.

Disposal of Spillage and Waste: Follow federal, state, and local regulations for waste.

EPA Hazardous Waste #: N/A.



METER

VII – HANDLING AND STORAGE

Handling: Observe good industrial hygiene practices. Use in well-ventilated areas.

Storage: Store in closed original container. Keep container tightly closed. Store in cool and dry place.

VIII – EXPOSURE CONTROL/PERSONAL PROTECTION

Ventilation: Local exhaust.

Respiratory Protection: Respiratory protection not required. For nuisance exposures, use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Personal Protection: If there is a risk of splashing, use goggles with side shields. Use proper protective gloves and avoid contact with skin and eyes.

Other: Lab coat/apron.

IX – PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Colorless liquid
Odor:	Odorless
pH:	5.0 – 7.0 at 20 °C
Molecular Weight:	74.55
Boiling Point:	No data available.
Vapor Pressure:	No data available.
Vapor Density:	No data available.
Freezing Point:	No data available.
Specific Gravity (H₂O=1):	No data available.
Solubility in Water:	Complete
Flash Point:	No data available.

X – STABILITY AND REACTIVITY

Stable: Stable under recommended storage and handling conditions.

Conditions to Avoid: Strong oxidizers, strong acids.

Materials to Avoid: Metals and acids.

Hazardous Decomposition Products: Hydrogen chloride, chlorine, oxides of potassium. irritating fumes and gases.

Possibility of Hazardous Reactions: No information available.

Polymerization: Hazardous polymerization does not occur.

Corrosivity: Corrosive to some metals.

XI – TOXICOLOGICAL INFORMATION

Inhalation: May cause respiratory tract irritation. Ensure supply of fresh air.

Skin Contact: May cause skin irritation.

Eye Contact: Splashes in the eyes may cause irritation, redness, and pain. Rinse immediately and thoroughly with plenty of water.

Ingestion: May cause gastrointestinal irritation with nausea, vomiting, and diarrhea. May cause gastric disturbances and electrolytic imbalance.

Health Warnings: Ingestion may cause disturbance of body electrolyte balance. Effects may be delayed. Oral (rat) LD50: 3000 mg/kg.

Carcinogenicity: NTP: No

IARC: No

ZLIST: No

OSHA Reg: No

XII – ECOLOGICAL INFORMATION (NONMANDATORY)

Ecological Information: No specific data or information available regarding environmental impact. Regarded as having low toxicity to aquatic organisms.

Mobility: Soluble in water. Predicted to have high mobility in soil.



METER

XIII – DISPOSAL CONSIDERATIONS (NONMANDATORY)

Disposal Methods: Disposal should be in accordance with the principles of Duty of Care observing local and national regulations.

Relevant Information: Keep out of drains, sewers, ditches, and waterways.

Contaminated Packaging: Empty containers must be triple rinsed prior to disposal.

XIV – TRANSPORT INFORMATION (NONMANDATORY)

General: Goods are not regulated, or not dangerous, or are not hazardous, or not restricted for transportation by IATA.

XV – REGULATORY INFORMATION (NONMANDATORY)

FEDERAL REGULATIONS

TSCA

CAS# 7447-40-7 and 7732-18-5 are listed on the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

SARA

Section 302 (RQ)

None of the chemicals in this material have an RQ.

Section 302 (TPQ)

None of the chemicals in this product have a TPQ.

SARA Codes

CAS# 7447-40-7: acute.

Section 313

No chemicals are reportable under Section 313.

Clean Air Act

This material does not contain any hazardous air pollutants. This material does not contain any Class I Ozone-Depleting Substances. This material does not contain any Class II Ozone-Depleting Substances.

Clean Water Act

None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA

OSHA does not consider any of the chemicals in this product highly hazardous.

STATE REGULATIONS

CAS# 7447-40-7 and 7732-18-5 are not present on state lists from CA, PA, MN, MA, FL, or NJ.

California No Significant Risk Level: None of the chemicals in this product are listed.

INTERNATIONAL REGULATIONS

European Labeling in Accordance with EC Directives

Hazard Symbols: None.

Risk Phrases: None.

Safety Phrases:

P305+P351+ P338 IN CONTACT WITH THE EYES: Rinse gently with water for a few minutes. Remove existing contact lenses if possible. Continue rinsing.

P280 Wear protective gloves/protective clothing/eye protection/face protection. !

WGK (Water Danger/Protection): WGK 1 CAS# 7447-40-7 and 7732-18-5.

Canada

CAS# 7447-40-7 and 7732-18-5 are listed on Canada's DSL List.

This product has a WHMIS classification of D2B.

CAS# 7447-40-7 and 7732-18-5 are not listed on Canada's Ingredient Disclosure List.

**METER****XVI – OTHER INFORMATION**

Information Sources: Product classified according to CHIP3 regulations. (The Chemicals Hazard Information and Packaging for Supply Regulations 2002).

NOTICE

The foregoing data has been compiled for safety information only and does not form part of any selling specification. Information contained in this data sheet is to the best of METER Group's knowledge correct at the time of publication. Customers should always satisfy for themselves that their product is entirely suitable for their purpose under their conditions of use and in compliance with current regulations. For any further information, please contact the supplier.



METER

Safety Data Sheet Deionized Water (H₂O)

Last Reviewed/Revised: 3.2025

I – PRODUCT AND COMPANY IDENTIFICATION

Company: METER Group, Inc.
2365 NE Hopkins Court
Pullman, WA 99163 USA
509-332-2756

Product Name: Deionized Water
Concentration: 100%
Component: Not applicable

TSCA: Yes
STEL: N/A

TLV/TWA: Not established
PEL: N/A

Toxicity: N/A

II – HAZARD IDENTIFICATION

This product does not contain a toxic chemical subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40CFR372).

NFPA Ratings: Health: 0 Flammability: 0 Reactivity: 0

III – COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number
Deionized water	7732-18-5

IV – EMERGENCY FIRST AID PROCEDURES

CALL A PHYSICIAN

Inhalation: No emergency care anticipated.
Skin Contact: No emergency care anticipated.
Eye Contact: No emergency care anticipated.
Ingestion: No emergency care anticipated.

V – FIRE FIGHTING MEASURES

Extinguishing Media: Will not burn nor support fire.
Special Fire Fighting Procedures: Not required.

Auto Ignition Temperature: N/A
Toxic Gases Produced: N/A

Lower Explosion Level: N/A
Unusual Fires Explosion Hazards: N/A

NFPA Rating: N/A

VI – ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use personal protective equipment.
Environmental Precautions: Not required.
In Case of Spillage or Discharge: No special measures required.
Disposal of Spillage and Waste: No special measures required.
EPA Hazardous Waste #: N/A.

VII – HANDLING AND STORAGE

Handling: Observe good industrial hygiene practices.
Storage: Store in closed original container. Keep container tightly closed. Store in cool and dry place.



METER

VIII – EXPOSURE CONTROL/PERSONAL PROTECTION

Ventilation: Not required.
Respiratory Protection: Not required.
Personal Protection: Not required.
Other: Not required.

IX – PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Colorless liquid
Odor: Odorless
pH: 7
Molecular Weight: 18.00
Boiling Point: 100 °C @ 1 atm
Vapor Pressure: 3.169 kPa @ 25 °C
Vapor Density: N/A
Freezing Point: 0 °C @ 1 atm
Specific Gravity (H₂O=1): 1
Solubility: Complete
Flash Point: Nonflammable

X – STABILITY AND REACTIVITY

Stable: Stable under recommended conditions.
Conditions to Avoid: None.
Incompatibles: Strong acids, strong bases, and water-reactive substances.
Hazardous Decomposition Products: None.
Possibility of Hazardous Reactions: No information available.
Polymerization: Hazardous polymerization does not occur.
Corrosivity: Not corrosive.
Special Remarks on Corrosivity: No information available.

XI – TOXICOLOGICAL INFORMATION

Inhalation: No emergency care anticipated.
Skin Contact: No emergency care anticipated.
Eye Contact: No emergency care anticipated.
Ingestion: No emergency care anticipated.
Health Warnings: Not suitable as drinking water.

Carcinogenicity: NTP: No **IARC:** No **ZLIST:** No **OSHA Reg:** No

XII – ECOLOGICAL INFORMATION (NONMANDATORY)

Ecological Information: No specific data or information available regarding environmental impact.
Mobility: High mobility in soil.

XIII – DISPOSAL CONSIDERATIONS (NONMANDATORY)

Disposal Methods: Disposal should be in accordance with the principles of Duty of Care observing local and national regulations.
Relevant Information: None.
Contaminated Packaging: Not applicable.

XIV – TRANSPORT INFORMATION (NONMANDATORY)

General: Goods are not regulated, or not dangerous, or are not hazardous, or not restricted for transportation by IATA.



METER

XV – REGULATORY INFORMATION (NONMANDATORY)

FEDERAL REGULATIONS

TSCA

CAS# 7732-18-5 is listed on the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

SARA

Section 302 (RQ)

None of the chemicals in this material have an RQ.

Section 302 (TPQ)

None of the chemicals in this product have a TPQ.

SARA Codes

None.

Section 313

No chemicals are reportable under Section 313.

Clean Air Act

This material does not contain any hazardous air pollutants. This material does not contain any Class I Ozone-Depleting Substances. This material does not contain any Class II Ozone-Depleting Substances.

Clean Water Act

None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA

OSHA does not consider any of the chemicals in this product highly hazardous.

STATE REGULATIONS

CAS# 7732-18-5 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

California No Significant Risk Level: None of the chemicals in this product are listed.

INTERNATIONAL REGULATIONS

European Labeling in Accordance with EC Directives

Hazard Symbols: None.

Risk Phrases: None.

Safety Phrases: None.

WGK (Water Danger/Protection)

WGK 0 not hazardous to water. CAS# 7732-18-5

Canada

CAS# 7732-18-5 is listed on Canada's DSL List.

CAS# 7732-18-5 is not listed on Canada's Ingredient Disclosure List.

XVI – OTHER INFORMATION

Information Sources: Product classified according to CHIP3 regulations. (The Chemicals Hazard Information and Packaging for Supply Regulations 2002).

NOTICE

The foregoing data has been compiled for safety information only and does not form part of any selling specification. Information contained in this data sheet is to the best of METER Group's knowledge correct at the time of publication. Customers should always satisfy for themselves that their product is entirely suitable for their purpose under their conditions of use and in compliance with current regulations. For any further information, please contact the supplier.



Section 1 – Identification of the substance/mixture and of the company/undertaking					
Product Identifier/Name:	Steam Activated Carbon	CAS No.	7440-44-0	EINECS No.	931-328-0
Trade Name and Synonyms:	Steam Activated Carbons				
Chemical Name:	Activated Carbon				
Relevant Identified Uses of the Substance or Mixture:	Liquid and vapor phase purification and catalyst applications				
Restrictions On Use:	None				
Details of the Supplier:	Charcoal House LLC 13830 Hwy 2/71 Crawford, NE 69339 308-665-1566	Questions Contact:	Email: CustomerSupport@BuyActivated-Charcoal.com US: 1-800-222-1222 The Netherlands, Antigifcentrum +31 30 274 88 88 Belgium, Antigifcentrum +32 70 245 245 Germany, Giftnotrufzentrale-Berlin +49 30 19240 France Centre Anti-Poison +33 1 40 05 48 48 U.K Poisons Info. Center +44 20 7771 5310		
Emergency Phone:					
Section 2 – Hazards Identification					
Classification of the Substance or Mixture: Product is a Substance					
GHS Classification:	Not Classified	Label Elements:	Symbols: None		
CLP Classification:	Not Classified	GHS Labeling:	Signal Word: None		
		CLP Labeling:	Hazard Statement: None		
Precautionary Statement:	Activated carbon is not considered to be hazardous as defined by OSHA's Hazard Communication Standard 29 CFR 1910.1200.				
Exposure Limits:	OSHA: PEL = 15 mg/m ³ as total dust; 5 mg/m ³ as respirable fraction ACGIH: TLV = 10 mg/m ³ as total dust; 3 mg/m ³ as respirable fraction				
<p>The "nuisance dust" exposure values that are listed apply to any inert substance capable of producing airborne particulates. Excessive concentrations of activated carbon may reduce visibility, cause unpleasant deposits in the eye, ears, and nasal passages, or irritate the skin or mucous membranes by mechanical means. However, normal workplace exposure has not been determined to cause a significant health effect. Prolonged or repeated exposure to dust may cause eyes and respiratory tract irritation.</p> <p>Wet activated carbon depletes oxygen from air and, therefore, dangerously low levels of oxygen may be encountered. Whenever workers enter a vessel containing activated carbon, the vessel's oxygen content should be determined and work procedures for potentially low oxygen areas should be followed.</p> <p>Contact with strong oxidizers such as ozone, liquid oxygen, permanganate, etc., may result in fire.</p> <p>This product is nontoxic.</p> <p>Powdered material may form an explosive dust/air mixture.</p>					
Other Hazards:	N/A				
Section 3 – Composition / Information on Ingredients					
Substances:	Activated Carbon 100%	CAS NO.	7440-44-0	EINECS No.	931-328-0
Mixtures:	N/A				
Section 4 – First Aid Measures					
Description of First Aid Measures:	<p>Inhalation: Remove to fresh air. If breathing has stopped, administer artificial respiration and supply oxygen. If problems persist, seek medical attention.</p> <p>Eye Contact: In case of contact, immediately flush eyes with plenty of water until irritation subsides. If irritation persists, seek medical attention.</p>				



	<p>Skin Contact: Normal skin contact is not known to cause a significant health effect. Particles should be periodically washed off of skin with soap and clean water. Remove and launder contaminated clothing before reuse.</p> <p>Ingestion: If swallowed, wash mouth, do not induce vomiting. Immediately give water. Never give anything by mouth to an unconscious person. If symptoms develop, seek medical attention.</p>
Most Important Symptoms and Effects, acute and delayed:	Skin contact may cause skin irritation.
Indication of Any Immediate Medical Attention and Special Treatment Needed:	Treat symptomatically.
Section 5 – Firefighting Measures	
Extinguishing Media:	Water Spray, Dry Chemical, Foam, or Carbon Dioxide Blanket
Special Hazards Arising from the Substance or Mixture:	Material burns slowly without flame. Activated carbon which has been allowed to smolder for a long time in a confined space may accumulate carbon monoxide above its lower explosive limit. Avoid stirring up dust clouds. Under certain conditions, carbon dust/air mixtures can produce an explosive atmosphere. If there are dust clouds and sufficient ignition energy, flash fires or explosions may occur. Products of combustion may contain carbon monoxide and carbon dioxide. Do not enter permitted confined space or enclosed area without proper PPE.
Advice for Firefighters	Wear suitable protective equipment. NIOSH- approved self-contained breathing apparel may be required in a closed area.
Section 6 – Accidental Release Measures	
Personal Precautions, Protective Equipment, Emergency Procedures:	Avoid dust formation and ignition sources. Wear suitable protective equipment. See also Section 8.
Environmental Precautions:	Material is not toxic and can be picked up by sweeping, shoveling, or vacuuming. Provisions should be made to prevent washing, draining, or directing material to storm or sanitary sewers.
Methods and Material for Containment and Clean-up:	Remove material mechanically. Clean polluted areas with water. If necessary remove material with explosion-proof suction system. All local regulations regarding health and pollution must be followed for disposal of activated carbon.
Reference to Other Sections:	See also section 8.
Section 7 – Handling And Storage	
Precautions For Safe Handling:	Make sure to provide adequate ventilation in enclosed areas. Avoid conditions which create dust. Do not breathe dust. Keep product and dust away from sources of ignition. Wear adequate protective equipment. Keep away from heat and sources of ignition. No smoking near areas where material is stored or used.
Conditions For Safe Storage:	Store in a dry and cool environment. Keep away from heat and sources of ignition. Enclosed storage vessels and silos allow for hermetical seal and grounding. Access to enclosed storage of wet activated carbon should be restricted.
Incompatibilities:	Strong oxidizing acids; other strong oxidants
Specific End Use:	N/A
Section 8 – Exposure Controls / Personal Protection	



Control Parameters:	OSHA: PEL = 15 mg/m ³ as total dust; 5 mg/m ³ as respirable fraction ACGIH: TLV = 10 mg/m ³ as total dust; 3 mg/m ³ as respirable fraction		
Engineering Controls	Use with adequate ventilation to maintain exposures below occupational limits. Use local exhaust ventilation to control airborne dust. Dust should be controlled at point of operation.		
Personal Protection Information:	<p>Respiratory Protection: Approved respirator may be necessary to maintain exposures below the acceptable limits if local exhaust ventilation is not adequate. Select appropriate NIOSH-approved protection or, as appropriate to location, a recognized equivalent and acceptable national or international consensus standard. Proper respiratory selection should be determined by adequately trained personnel and based on the contaminant(s), the degree of potential exposure and published respirator protection factors.</p> <p>Eye Protection: Wear safety glasses with side shields and in areas of high dust concentrations wear chemical goggles.</p> <p>Hand Protection: Wear suitable gloves to prevent repeated or prolonged skin contact.</p> <p>Additional Information: Whenever works enter a vessel containing activated carbon, the vessel's oxygen content should be determined and work procedures for potentially low oxygen areas should be followed.</p>		
Section 9 – Physical and Chemical Properties			
Information on Basic Physical and Chemical Properties:			
Appearance:	Solid, black, no odor	Flammability:	N/A
Odor:	Odorless	Upper Flammability/Explosive Limit:	N/A
Odor Threshold:	N/A	Lower Flammability/Explosive Limit:	N/A
pH:	N/A	Vapor Pressure:	N/A
Melting Point:	N/A	Vapor Density:	N/A
Freezing Point:	N/A	Bulk Density (g/cm ³):	0.50-1.00
Initial Boiling Point:	N/A	Solubility:	Insoluble
Boiling Range:	N/A	Partition Coefficient: n-octanol/water:	N/A
Flash Point:	N/A	Auto Ignition Temperature:	Not self-heating
Evaporation Rate:	N/A	Decomposition Temperature:	Not Determined
Other Info.:	N/A		
Section 10 – Stability and Reactivity			
Reactivity:	N/A		
Chemical Stability:	Stable under normal conditions		
Hazardous Polymerization:	Will Not Occur		
Possibility of Hazardous Reaction	Keep away from strong oxidizing acids; other strong oxidants.		
Conditions to Avoid:	Extreme heat and open flames. Avoid accumulation of finely ground dust. Minimize generation of airborne dust. Contact with incompatible materials.		
Incompatible Materials:	Heat and ignition source, strong oxidizing acids; other strong oxidants		
Hazardous Decomposition Products	Material does not decompose at ambient temperatures		
Section 11 – Toxicological Information			
Information on Toxicological Effects:			
Routes of Entry:	Inhalation, ingestion, skin, and eye contact		
Acute Toxicity:	Non-toxic		
Irritation:	Can be irritating to exposed skin, eyes and respiratory system.		
Corrosivity:	No data available		
Sensitization:	No data available		



Repeated Dose Toxicity:	Without proper respiratory protection measures, particles inhaled with air in the course of years or decades may cause chronic respiratory diseases if the appropriate dust exposure limits are exceeded.
Carcinogenicity:	Potential Carcinogen by: NTP? <u>No</u> IARC? <u>No</u> OSHA? <u>No</u>
Mutagenicity:	No data available
Reproduction:	No data available
Toxicity:	
Section 12 – Ecological Information	
Toxicity:	N/A
Persistence and Degradability:	Not expected to degrade.
Bioaccumulation Potential:	Low bioaccumulation potential as negligible water solubility restricts route of exposure in the aquatic environment.
Mobility in Soil:	Mobility is not expected because insoluble.
Results of PBT and vpvB Assessment:	N/A
Other Adverse Effects:	No data available.
Section 13 – Disposal Considerations	
Waste Treatment Methods: All Federal, State, Local regulations and other countries regarding health and pollution must be followed. Virgin activated carbon no specified disposal methods apply. Used or spent activated carbon should be disposed of in accordance with applicable laws/regulations. Reuse or recycle material whenever possible.	
Section 14 – Transport Information	
UN Number:	N/A, Not ADR regulated, Not IMO Regulated
UN Proper Shipping Name:	N/A
Transport Hazard Class(es):	N/A
Packing Group:	N/A
Environmental Hazards:	N/A
Marine Pollutant:	No
Special Precautions for User:	Wet activated carbon depletes oxygen from air and therefore dangerously low levels of oxygen may be encountered. Whenever workers enter a vessel containing activated carbon, the vessel(s) oxygen content should be determined and work procedures for potentially low oxygen areas should be followed.
IMDG/IMO:	
Transportation in Bulk According to Annex II and V of MARPOL73/78 and the IBC Code	Non HME
Section 15 – Regulatory Information	
Safety Health and Environmental Regulations/ Legislation Specific for the Substance or Mixture	N/A
Chemical Safety Assessment	N/A
Section 16 – Other Information	
DISCLAIMER: All information appearing herein is based upon data obtained from the manufacturer and/or recognized technical sources. It relates specifically to the product designated and may not be valid for the product when used with any other materials or products or in a particular process. The information is, to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee, express or implied, is made as to its accuracy, reliability or completeness.	



Charcoal House, LLC

Steam Activated Carbon

Page 5 of 5

It is the user's responsibility to review this information, satisfy itself as to its suitability and completeness, and pass on the information to its employees or customers in accordance with applicable hazard communication and GHS requirements. We do not accept responsibility for any loss or damage which may occur from the use of this information.



METER

Safety Data Sheet AQUALAB Cleaning Solution

Last Reviewed/Revised: 4.2025

I – PRODUCT AND COMPANY IDENTIFICATION

Company: METER Group, Inc.
2365 NE Hopkins Court
Pullman, WA 99163 USA
509-332-2756

Product Name: AQUALAB Cleaning Solution
Component: Not applicable

TSCA: Yes
STEL: N/A

TLV/TWA: Not established
PEL: N/A

Toxicity: N/A

II – HAZARD IDENTIFICATION

This product does not contain a toxic chemical subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40CFR372).

NFPA Ratings: Health: 0 Flammability: 0 Reactivity: 0

III – COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number
This product does not contain hazardous chemicals at or above a reportable level as defined by OSHA 29 CFR 1910.1200	

IV – EMERGENCY FIRST AID PROCEDURES

CALL A PHYSICIAN

Inhalation: No emergency care anticipated.
Skin Contact: No emergency care anticipated.
Eye Contact: No emergency care anticipated.
Ingestion: No emergency care anticipated.

V – FIRE FIGHTING MEASURES

Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

Special Fire Fighting Procedures: Fight fire with normal precautions from a reasonable distance. Standard procedure for chemical fires. Wear full protective clothing and positive pressure self-contained breathing apparatus.

Auto Ignition Temperature: N/A
Toxic Gases Produced: N/A

Lower Explosion Level: N/A
Unusual Fires Explosion Hazards: N/A

NFPA Rating: N/A

VI – ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wash thoroughly after handling.

Environmental Precautions: Outside of normal use, avoid release to the environment.

In Case of Spillage or Discharge: Dike large spills. Clean residue from spill site.

Disposal of Spillage and Waste: Follow federal, state, and local regulations for waste.

EPA Hazardous Waste #: N/A.



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VII – HANDLING AND STORAGE

Handling: Observe good industrial hygiene practices.

Storage: Store in closed original container. Keep container tightly closed. Store in cool and dry place. Avoid contact with skin, eyes, and clothing. Keep out of reach of children and pets.

VIII – EXPOSURE CONTROL/PERSONAL PROTECTION

Ventilation: Not required.

Respiratory Protection: Not required.

Personal Protection: Not required.

Other: Not required.

IX – PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Blue transparent liquid

Odor: Pleasant

pH: 10.8

Boiling Point: No data available

Vapor Pressure: No data available

Vapor Density: N/A

Freezing Point: No data available

Specific Gravity (H₂O=1): 1

Solubility: Complete

Flash Point: >95 °C (203 °F)

X – STABILITY AND REACTIVITY

Stable: Stable under recommended conditions.

Conditions to Avoid: Direct sources of heat.

Incompatibles: Strong bases; do not mix with bleach or other household cleaners.

Hazardous Decomposition Products: Thermal decomposition can lead to release of irritating gasses and vapors.

Possibility of Hazardous Reactions: If accidental mixing occurs and toxic gas is formed, exit area immediately. Do not return until well ventilated.

Polymerization: Hazardous polymerization does not occur.

Corrosivity: Not corrosive.

Special Remarks on Corrosivity: No information available.

XI – TOXICOLOGICAL INFORMATION

Inhalation: LC50 (estimated) >2.58 mg/L.

Skin Contact: LD50 (estimated) >5,000 mg/kg.

Eye Contact: LD50 (estimated) >5,000 mg/kg.

Ingestion: LD50 (estimated) >5,000 mg/kg.

Health Warnings: None identified.

Carcinogenicity: NTP: No

IARC: No

ZLIST: No

OSHA Reg: No

XII – ECOLOGICAL INFORMATION (NONMANDATORY)

Ecological Information: No specific data or information available regarding environmental impact.

XIII – DISPOSAL CONSIDERATIONS (NONMANDATORY)

Disposal Methods: Disposal should be in accordance with the principles of Duty of Care observing local and national regulations.

Relevant Information: Keep out of drains, sewers, ditches, and waterways.

Contaminated Packaging: Not applicable.



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XIV – TRANSPORT INFORMATION (NONMANDATORY)

General: Goods are not regulated, or not dangerous, or are not hazardous, or not restricted for transportation by IATA.

XV – REGULATORY INFORMATION (NONMANDATORY)

FEDERAL REGULATIONS

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

SARA

Section 302 (RQ)

None of the chemicals in this material have an RQ.

Section 302 (TPQ)

None of the chemicals in this product have a TPQ. SARA Codes None.

Section 313

No chemicals are reportable under Section 313.

Clean Air Act

This material does not contain any hazardous air pollutants. This material does not contain any Class I Ozone-Depleting Substances. This material does not contain any Class II Ozone-Depleting Substances.

Clean Water Act

None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as

Toxic Pollutants under the CWA.

OSHA

OSHA does not consider any of the chemicals in this product highly hazardous.

STATE REGULATIONS

California No Significant Risk Level: None of the chemicals in this product are listed.

INTERNATIONAL REGULATIONS

European Labeling in Accordance with EC Directives Hazard Symbols: None.

Risk Phrases: None.

Safety Phrases: None.

WGK (Water Danger/Protection)

Canada

This chemical is not listed on Canada's Ingredient Disclosure List.

XVI – OTHER INFORMATION

Information Sources: Product classified according to CHIP3 regulations. (The Chemicals Hazard Information and Packaging for Supply Regulations 2002).

NOTICE

The foregoing data has been compiled for safety information only and does not form part of any selling specification. Information contained in this data sheet is to the best of METER Group's knowledge correct at the time of publication. Customers should always satisfy for themselves that their product is entirely suitable for their purpose under their conditions of use and in compliance with current regulations. For any further information, please contact the supplier.

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