



Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015) & US HazCom 2024
Issue date: December 2025 Version: A

SECTION 1 Identification

1.1. GHS Product identifier

Product form : Mixture
Trade name : iTag Solution # 1 Concentrate
Product code : 558175

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 : Dye
Restrictions on use : No additional information available

1.4. Supplier's details

CEM Corporation
3100 Smith Farm Road
Matthews, NC 28104
Tel: 1-800-726-3331
Email: info@cem.com

1.5. Emergency phone number

Emergency number : 704-821-7015
8:30 – 17:00 (ET)

SECTION 2 Hazard identification

2.1. Classification of the substance or mixture

GHS US classification according to US HazCom 2024

| | |
|---|--|
| Acute toxicity (dermal), Category 4 | Harmful in contact with skin. |
| Skin corrosion/irritation, Category 1 | Causes severe skin burns and eye damage. |
| Serious eye damage/eye irritation, Category 1 | Causes serious eye damage. |

GHS CA classification according to the Hazardous Products Regulation (February 11, 2015)

| | |
|---|--|
| Acute toxicity (dermal), Category 4 | Harmful in contact with skin. |
| Skin corrosion/irritation, Category 1 | Causes severe skin burns and eye damage. |
| Serious eye damage/eye irritation, Category 1 | Causes serious eye damage. |

2.2. GHS label elements, including precautionary statements

GHS US labeling according to US HazCom 2024

Hazard pictograms (GHS US) :



Signal word (GHS US) : Danger
Hazard statements (GHS US) : Harmful in contact with skin
Causes severe skin burns and eye damage

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Precautionary statements (GHS US) : Do not breathe dusts or mists.
Wash hands, forearms and face thoroughly after handling.
Wear eye protection, protective gloves, protective clothing.
If swallowed: rinse mouth. Do NOT induce vomiting.
If on skin: Wash with plenty of water.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a poison center or doctor.
Take off contaminated clothing and wash it before reuse.
Wash contaminated clothing before reuse.
Store locked up.
Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

GHS CA labelling according to the Hazardous Products Regulation (February 11, 2015)

Hazard pictograms (GHS CA) : 

Signal word (GHS CA) : Danger

Hazard statements (GHS CA) : Harmful in contact with skin
Causes severe skin burns and eye damage

Precautionary statements (GHS CA) : Do not breathe mist, spray, vapours.
Wash hands, forearms and face thoroughly after handling.
Wear eye protection, protective gloves, protective clothing.
IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water .
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER or a doctor.
Take off contaminated clothing and wash it before reuse.
Wash contaminated clothing before reuse.
Store locked up.
Dispose of contents and/or container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulations.

2.3. Other hazards which do not result in classification

No additional information available

SECTION 3 Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Chemical name / Synonyms | Product identifier | % | Classification (GHS CA) |
|-------------|---|--------------------|------|---|
| Acetic acid | Acetic acid ... % Acetic acid, glacial / Ethanoic acid / Ethylic acid / Vinegar acid / ACETIC ACID / Acetic acid solution / Acetic acid ...% / Acetic acid ... % | CAS-No.: 64-19-7 | ≈ 56 | Flam. Liq. 3, H226 Skin Corr. 1A, H314 Eye Dam. 1, H318 |

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SECTION 4 First-aid measures

4.1. Description of necessary first-aid measures

| | |
|---------------------------------------|---|
| First-aid measures after inhalation | : Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air. Obtain medical attention if breathing difficulty persists. |
| First-aid measures after skin contact | : Wash off immediately and plentifully with water for at least 20 minutes. Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Seek medical attention if ill effect or irritation develops. |
| First-aid measures after eye contact | : Wash immediately with plenty water (during 20 minutes), also under eyelids. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persists. |
| First-aid measures after ingestion | : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a poison center or a doctor if you feel unwell. |
| 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). |

4.2. Most important symptoms/effects, acute and delayed

| | |
|-------------------------------------|--|
| Symptoms/effects after skin contact | : Causes severe burns. Harmful in contact with skin. |
| Symptoms/effects after eye contact | : Causes serious eye damage. |

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

| | |
|---------------------|--|
| Note to physician : | : Treat symptomatically. Treat as thermal burns. |
|---------------------|--|

SECTION 5 Fire-fighting measures

5.1. Suitable extinguishing media

| | |
|--------------------------------|--|
| Suitable extinguishing media | : Foam. Dry powder. Carbon dioxide. Water spray. |
| Unsuitable extinguishing media | : Do not use a heavy water stream. |

5.2. Specific hazards arising from the chemical

| | |
|--|--|
| Fire hazard | : On combustion, forms: carbon oxides (CO and CO ₂). |
| Explosion hazard | : No hazard identified. |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. Thermal decomposition may produce : Carbon oxides (CO, CO ₂). |

5.3. Special protective actions for fire-fighters

| | |
|---------------------------------------|---|
| Firefighting instructions | : Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment. |
| Protective equipment for firefighters | : Do not enter fire area without proper protective equipment, including respiratory protection. Self-contained breathing apparatus. Complete protective clothing. |

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

| | |
|------------------|---|
| General measures | : Keep away from open flames, hot surfaces and sources of ignition. Do not breathe mist, vapors, spray. Avoid contact with skin, eyes and clothing. |
|------------------|---|

For non-emergency personnel

| | |
|----------------------|--|
| Protective equipment | : Wear recommended personal protective equipment. For further information refer to section 8: "Exposure controls/personal protection". |
|----------------------|--|

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| | |
|---------------------------------|---|
| Emergency procedures | : Ventilate spillage area. |
| 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". |
| Emergency procedures | : Ventilate area. |
| Environmental precautions | : Avoid (direct) release (of undiluted product) to the environment/sewage system. Prevent entry to sewers and public waters. |

6.2. Methods and materials for containment and cleaning up

| | |
|--|--|
| For containment | : Absorb spilled material with sand or earth. |
| 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. |
| Other information | : Dispose of in a safe manner in accordance with local/national regulations. |
| For further information refer to section 8: "Exposure controls/personal protection". For disposal of residues refer to section 13 : "Disposal considerations". | |

SECTION 7 Handling and storage

7.1. Precautions for safe handling

| | |
|-------------------------------|---|
| Precautions for safe handling | : Ensure good ventilation of the work station. Wear personal protective equipment. Do not breathe mist, vapours, spray. Avoid contact with skin, eyes and clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| Hygiene measures | : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wash contaminated clothing before reuse. Handle in accordance with good industrial hygiene and safety procedures. |

7.2. Conditions for safe storage, including any incompatibilities

| | |
|------------------------|--|
| Storage conditions | : Keep container tightly closed in a cool, well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Store locked up. |
| Incompatible materials | : Strong oxidizing agents. Strong acids. Strong bases. |
| Specific end uses | : For further information see section 1. |

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

| Acetic acid (64-19-7) | |
|--|-----------------------------|
| Canada (Alberta) - Occupational Exposure Limits | |
| Local name | Acetic acid |
| OEL TWA | 25 mg/m ³ |
| OEL TWA | 10 ppm |
| OEL STEL | 37 mg/m ³ |
| OEL STEL | 15 ppm |
| Regulatory reference | Alberta Regulation 191/2021 |
| Canada (Quebec) - Occupational Exposure Limits | |
| Local name | Acetic acid |
| VECD (OEL STEV) | 37 mg/m ³ |

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| Acetic acid (64-19-7) | |
|--|--|
| VECD (OEL STEV) | 15 ppm |
| VEMP (OEL TWAEV) | 25 mg/m ³ |
| VEMP (OEL TWAEV) | 10 ppm |
| Regulatory reference | S-2.1, r. 13 - Regulation respecting occupational health and safety |
| Canada (British Columbia) - Occupational Exposure Limits | |
| Local name | Acetic acid |
| OEL TWA | 10 ppm |
| OEL STEL | 15 ppm |
| Regulatory reference | OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC) |
| Canada (Manitoba) - Occupational Exposure Limits | |
| Local name | Acetic acid |
| OEL TWA | 25 mg/m ³ |
| OEL TWA | 10 ppm |
| OEL STEL | 37 mg/m ³ |
| OEL STEL | 15 ppm |
| Notations and remarks | TLV® Basis: Sensory irr; Burns (chemical); Pulm func |
| Regulatory reference | ACGIH 2025 |
| Canada (New Brunswick) - Occupational Exposure Limits | |
| Local name | Acetic acid |
| OEL TWA | 10 ppm |
| OEL STEL | 15 ppm |
| Notations and remarks | URT & eye irr; pulm func |
| Canada (Newfoundland and Labrador) - Occupational Exposure Limits | |
| Local name | Acetic acid |
| OEL TWA | 25 mg/m ³ |
| OEL TWA | 10 ppm |
| OEL STEL | 37 mg/m ³ |
| OEL STEL | 15 ppm |
| Notations and remarks | TLV® Basis: Sensory irr; Burns (chemical); Pulm func |
| Regulatory reference | ACGIH 2025 |
| Canada (Nova Scotia) - Occupational Exposure Limits | |
| Local name | Acetic acid |
| OEL TWA | 25 mg/m ³ |
| OEL TWA | 10 ppm |
| OEL STEL | 37 mg/m ³ |
| OEL STEL | 15 ppm |
| Notations and remarks | TLV® Basis: Sensory irr; Burns (chemical); Pulm func |

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| Acetic acid (64-19-7) | |
|--|---|
| Regulatory reference | ACGIH 2025 |
| Canada (Nunavut) - Occupational Exposure Limits | |
| Local name | Acetic acid |
| OEL TWA | 10 ppm |
| OEL STEL | 15 ppm |
| Regulatory reference | Occupational Health and Safety Regulations, Nu Reg 003-2016 (Amendment R-044-2021) |
| Canada (Northwest Territories) - Occupational Exposure Limits | |
| Local name | Acetic acid |
| OEL TWA | 10 ppm |
| OEL STEL | 15 ppm |
| Regulatory reference | Occupation Health and Safety Regulations R-039-2015 (R-090-2024) |
| Canada (Ontario) - Occupational Exposure Limits | |
| Local name | Acetic acid |
| OEL TWAEV | 10 ppm |
| OEL TWAEV | 15 ppm |
| Regulatory reference | Occupational Health and Safety Act, R.S.O. 1990, c. O.1 - R.R.O. 1990, Reg. 833: Control of exposure to biological or chemical agents |
| Canada (Prince Edward Island) - Occupational Exposure Limits | |
| Local name | Acetic acid |
| OEL TWA | 25 mg/m ³ |
| OEL TWA | 10 ppm |
| OEL STEL | 37 mg/m ³ |
| OEL STEL | 15 ppm |
| Notations and remarks | TLV® Basis: Sensory irr; Burns (chemical); Pulm func |
| Regulatory reference | ACGIH 2025 |
| Canada (Saskatchewan) - Occupational Exposure Limits | |
| Local name | Acetic acid |
| OEL TWA | 10 ppm |
| OEL STEL | 15 ppm |
| Regulatory reference | The Occupational Health and Safety Regulations, 2020. Chapter S-15.1 Reg 10 |
| Canada (Yukon) - Occupational Exposure Limits | |
| OEL TWA | 25 mg/m ³ |
| OEL TWA | 10 ppm |
| OEL STEL | 43 mg/m ³ |
| OEL STEL | 25 ppm |
| USA - ACGIH - Occupational Exposure Limits | |
| Local name | Acetic acid |

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| Acetic acid (64-19-7) | |
|--|--|
| ACGIH® TLV® TWA | 25 mg/m ³ |
| ACGIH® TLV® TWA | 10 ppm |
| ACGIH® TLV® STEL | 37 mg/m ³ |
| ACGIH® TLV® STEL | 15 ppm |
| Remark (ACGIH®) | TLV® Basis: Sensory irr; Burns (chemical); Pulm func |
| Regulatory reference | ACGIH 2025 |
| USA - OSHA - Occupational Exposure Limits | |
| Local name | Acetic acid |
| OSHA PEL TWA | 25 mg/m ³ |
| OSHA PEL TWA | 10 ppm |
| Regulatory reference (US-OSHA) | OSHA Annotated Table Z-1 |
| Regulatory reference (US-OSHA) | OSHA Annotated Table Z-1 |
| USA - Cal/OSHA - Occupational Exposure Limits | |
| Local name | Acetic acid |
| Cal/OSHA PEL (OEL TWA) | 25 mg/m ³ |
| Cal/OSHA PEL (OEL TWA) | 10 ppm |
| Cal/OSHA STEL | 37 mg/m ³ |
| Cal/OSHA STEL | 15 ppm |
| Cal/OSHA C | 40 ppm |
| Regulatory reference | California Division of Occupational Safety and Health (Cal/OSHA) - Permissible Exposure Limit for Chemical Contaminants (Table AC-1) |
| USA - IDLH - Occupational Exposure Limits | |
| IDLH | 50 ppm |
| USA - NIOSH - Occupational Exposure Limits | |
| Local name | Acetic acid |
| NIOSH REL TWA | 25 mg/m ³ |
| NIOSH REL TWA | 10 ppm |
| NIOSH REL 10h TWA | 10 ppm |
| NIOSH REL STEL | 37 mg/m ³ |
| NIOSH REL STEL | 15 ppm |
| Regulatory reference (US-NIOSH) | OSHA Annotated Table Z-1 (NIOSH Pocket Guide to Chemical Hazards (NPG)) |
| Monitoring methods | |
| Monitoring methods | No additional information available. |

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station. Eyewash bottle with clean water.
Environmental exposure controls : Avoid (direct) release (of undiluted product) to the environment/sewage system.

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8.3. Individual protection measures, such as personal protective equipment (PPE)

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

Chemically resistant protective gloves. Nitrile rubber gloves. ISO 374-1. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer

Eye protection:

Safety glasses with side shields. ISO 16321-1

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. Wear suitable respiratory equipment in case of insufficient ventilation. Approved organic vapour respirator. Use respiratory protective devices as per ISO 16975-1:2016 recommendations.

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 | : No data available |
| Colour | : Dark red or orange |
| Odour | : Not available |
| Odour threshold | : No data available |
| pH | : 1 |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Relative evaporation rate (ether=1) | : No data available |
| Melting point | : No data available |
| Freezing point | : No data available |
| Boiling point | : > 100 °C |
| Flash point | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : Non flammable. |
| Vapour pressure | : No data available |
| Relative vapour density at 20°C | : No data available |
| Relative density | : 1.01 |
| Solubility | : No data available |
| Partition coefficient n-octanol/water (Log Pow) | : No data available |
| Viscosity, kinematic | : No data available |
| Explosive limits | : No data available |
| Particle characteristics | : No data available |

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

No additional information available

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SECTION 10 Stability and reactivity

| | |
|------------------------------------|--|
| Reactivity | : The product is non-reactive under normal conditions of use, storage and transport. |
| Chemical stability | : The product is stable at normal handling and storage conditions. |
| Possibility of hazardous reactions | : No dangerous reactions known under normal conditions of use. |
| Conditions to avoid | : Keep away from open flames, hot surfaces and sources of ignition. |
| Incompatible materials | : Strong oxidizing agents. Strong acids. Strong bases. |
| Hazardous decomposition products | : Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition may produce : Carbon oxides (CO, CO ₂). |
| Hardening time: | : No additional information available |

SECTION 11 Toxicological information

11.1. Information on toxicological effects

| | |
|-----------------------------|---|
| Acute toxicity (oral) | : Not classified (Based on available data, the classification criteria are not met) |
| Acute toxicity (dermal) | : Harmful in contact with skin. |
| Acute toxicity (inhalation) | : Not classified (Based on available data, the classification criteria are not met) |

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|-------------------------------|--------------------------------|
| ATE CA (Dermal) | 1892.857 mg/kg bodyweight |
| Acetic acid (64-19-7) | |
| LD50 oral rat | 3310 mg/kg (Source: JAPAN_GHS) |
| LD50 oral | 3310 mg/kg bodyweight |
| LD50 dermal rabbit | 1060 mg/kg (Source: JAPAN_GHS) |
| LD50 dermal | 1060 mg/kg bodyweight |
| LC50 Inhalation - Rat | 11.4 mg/l/4h |
| LC50 Inhalation - Rat [ppm] | 16000 ppm Source: ChemIDPlus |
| ATE CA (oral) | 3310 mg/kg bodyweight |
| ATE CA (Dermal) | 1060 mg/kg bodyweight |
| ATE CA (Gases) | 16000 ppmv/4h |
| ATE CA (vapours) | 11.4 mg/l/4h |
| ATE CA (dust,mist) | 11.4 mg/l/4h |

| | |
|-----------------------------------|---|
| 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 (Based on available data, the classification criteria are not met) |
| Germ cell mutagenicity | : Not classified (Based on available data, the classification criteria are not met) |
| Carcinogenicity | : Not classified (Based on available data, the classification criteria are not met) |
| Reproductive toxicity | : Not classified (Based on available data, the classification criteria are not met) |
| STOT-single exposure | : Not classified (Based on available data, the classification criteria are not met) |
| STOT-repeated exposure | : Not classified (Based on available data, the classification criteria are not met) |

| Acetic acid (64-19-7) | |
|----------------------------|--|
| NOAEL (oral, rat, 90 days) | 290 mg/kg bodyweight Animal: rat, Animal sex: male |

| | |
|-------------------|---|
| Aspiration hazard | : Not classified (Based on available data, the classification criteria are not met) |
|-------------------|---|

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| Acetic acid (64-19-7) | |
|-------------------------------------|---|
| Viscosity, kinematic | 1.011 mm ² /s |
| Symptoms/effects after skin contact | : Causes severe burns. Harmful in contact with skin. |
| Symptoms/effects after eye contact | : Causes serious eye damage. |
| Other information | : Likely routes of exposure: ingestion, inhalation, skin and eye. |

SECTION 12 Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not a OSHA HazCom 2024 hazard endpoint /Not a WHMIS 2022 hazard endpoint

Hazardous to the aquatic environment, long-term (chronic) : Not a OSHA HazCom 2024 hazard endpoint /Not a WHMIS 2022 hazard endpoint

| Acetic acid (64-19-7) | |
|------------------------------------|---|
| LC50 - Fish [1] | 79 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: EPA) |
| LC50 - Fish [2] | 75 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static] Source: EPA) |
| EC50 - Crustacea [1] | 65 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static]) |
| EC50 - Crustacea [2] | > 300.82 mg/l Test organisms (species): Daphnia magna |
| EC50 - Other aquatic organisms [1] | > 1000 mg/l waterflea |
| ErC50 algae | > 1000 mg/l |
| EC50 72h - Algae [1] | > 1000 mg/l Test organisms (species): Skeletonema costatum |
| EC50 72h - Algae [2] | > 300.82 mg/l Test organisms (species): Skeletonema costatum |

12.2. Persistence and degradability

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Persistence and degradability : Not established.

Acetic acid (64-19-7)

Persistence and degradability : Rapidly degradable

12.3. Bioaccumulative potential

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Bioaccumulative potential : Not established.

Acetic acid (64-19-7)

Partition coefficient n-octanol/water (Log Pow) : -0.17 (at 25 °C (at pH 7))

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Ozone : Not a OSHA HazCom 2024 hazard endpoint /Not a WHMIS 2022 hazard endpoint

Other information : Avoid (direct) release (of undiluted product) to the environment/sewage system.

Fluorinated greenhouse gases : No

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SECTION 13 Disposal considerations

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations : Dispose of in a safe manner in accordance with local/national regulations.
Ecological waste information : Avoid release to the environment.

SECTION 14 Transport information

In accordance with TDG / DOT / IMDG / IATA

| TDG | DOT | IMDG | IATA |
|---|--|---|--|
| 14.1. UN Number | | | |
| UN1760 | UN1760 | 1760 | 1760 |
| 14.2. UN Proper Shipping Name | | | |
| CORROSIVE LIQUID, N.O.S. (Acetic acid) | Corrosive liquids, n.o.s. (Acetic acid) | CORROSIVE LIQUID, N.O.S. (Acetic acid) | Corrosive liquid, n.o.s. (Acetic acid) |
| 14.3. Transport hazard class(es) | | | |
| 8 (LTD QTY) | 8 (LTD QTY) | 8 (LTD QTY) | 8 (LTD QTY) |
|  |  |  |  |
| 14.4. Packing group, if applicable | | | |
| I | I | I | I |
| 14.5. Environmental hazards | | | |
| Dangerous for the environment: No | Dangerous for the environment: No | Dangerous for the environment: No Marine pollutant: No | Dangerous for the environment: No |
| Consult the associated transport regulations for available and applicable exceptions or exemptions. | | | |
| The suitable shipping classification must be evaluated at the time of shipment due to the possibility for variations in regard to the transportation of this material considering the requirements, modes of transport, packaging, packaging configuration, quantity etc. Please consult the appropriate regulation for specific shipping information and requirements. | | | |
| This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Additional transportation information can be obtained through the authorized transporting corporation. It is the responsibility of the transporting corporation to follow all applicable laws, regulations and rules relating to the transportation of this product. | | | |

14.6. Special precautions for user

TDG

UN-No. (TDG) : UN1760

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| | |
|---|---|
| TDG Special Provisions | : 16 - (1) The technical name of at least one of the most dangerous substances that predominantly contributes to the danger or dangers posed by the dangerous goods must be shown, in parentheses, on the shipping document following the shipping name in accordance with clause 3.5(1)(c)(ii)(A). The technical name must also be shown, in parentheses, on a small means of containment or on a tag following the shipping name in accordance with subsections 4.11(2) and (3). (2) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a shipping document or on a small means of containment when Canadian law for domestic transport or an international convention for international transport prohibits the disclosure of the technical name: (a) UN1544, ALKALOID SALTS, SOLID, N.O.S. or ALKALOIDS, SOLID, N.O.S; (b) UN1851, MEDICINE, LIQUID, TOXIC, N.O.S; (c) UN3140, ALKALOID SALTS, LIQUID, N.O.S. or ALKALOIDS, LIQUID, N.O.S; (d) UN3248, MEDICINE, LIQUID, FLAMMABLE, TOXIC, N.O.S; or (e) UN3249, MEDICINE, SOLID, TOXIC, N.O.S. (3) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a small means of containment: (a) UN2814, INFECTIOUS SUBSTANCE, AFFECTING HUMANS; or (b) UN2900, INFECTIOUS SUBSTANCE, AFFECTING ANIMALS. |
| ERAP Index | : 3000 |
| Explosive Limit and Limited Quantity Index | : 0 |
| Excepted quantities (TDG) | : E0 |
| Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index | : 0.5 L |
| Emergency Response Guide (ERG) Number | : 154 |
| DOT | |
| UN-No. (DOT) | : UN1760 |
| DOT Special Provisions (49 CFR 172.102) | : A7 - Steel packagings must be corrosion-resistant or have protection against corrosion. B10 - MC 300, MC 301, MC 302, MC 303, MC 305, and MC 306 and DOT 406 cargo tanks, and DOT 57 portable tanks are not authorized. T14 - 6 mm Prohibited 178.275(g)(3). TP2 - a. The maximum degree of filling must not exceed the degree of filling determined by the following: (image) Where: t_r is the maximum mean bulk temperature during transport, t_f is the temperature in degrees celsius of the liquid during filling, and a is the mean coefficient of cubical expansion of the liquid between the mean temperature of the liquid during filling (t_f) and the maximum mean bulk temperature during transportation (t_r) both in degrees celsius. b. For liquids transported under ambient conditions may be calculated using the formula: (image) Where: d_{15} and d_{50} are the densities (in units of mass per unit volume) of the liquid at 15 C (59 F) and 50 C (122 F), respectively. TP27 - A portable tank having a minimum test pressure of 4 bar (400 kPa) may be used provided the calculated test pressure is 4 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP. |
| DOT Packaging Non Bulk (49 CFR 173.xxx) | : 201 |
| DOT Packaging Bulk (49 CFR 173.xxx) | : 243 |
| DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) | : 0.5 L |
| DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) | : 2.5 L |
| DOT Vessel Stowage Location | : B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded. |
| DOT Vessel Stowage Other | : 40 - Stow "clear of living quarters" |
| IMDG | |
| Special provisions (IMDG) | : 274 |

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according to the Hazardous Products Regulation (February 11, 2015) & US HazCom 2024

| | |
|------------------------------------|--|
| Limited quantities (IMDG) | : 0 |
| Excepted quantities (IMDG) | : E0 |
| Packing instructions (IMDG) | : P001 |
| Tank instructions (IMDG) | : T14 |
| Tank special provisions (IMDG) | : TP2, TP27 |
| EmS-No. (Fire) | : F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE |
| EmS-No. (Spillage) | : S-B - SPILLAGE SCHEDULE Bravo - CORROSIVE SUBSTANCES |
| Stowage category (IMDG) | : B |
| Stowage and handling (IMDG) | : SW2 |
| Properties and observations (IMDG) | : Causes burns to skin, eyes and mucous membranes. |

IATA

| | |
|--|-------------|
| PCA Excepted quantities (IATA) | : E0 |
| PCA Limited quantities (IATA) | : Forbidden |
| PCA limited quantity max net quantity (IATA) | : Forbidden |
| PCA packing instructions (IATA) | : 850 |
| PCA max net quantity (IATA) | : 0.5L |
| CAO packing instructions (IATA) | : 854 |
| CAO max net quantity (IATA) | : 2.5L |
| Special provisions (IATA) | : A3, A803 |
| ERG code (IATA) | : 8L |

14.7. Transport in bulk according to Annex II of MARPOL 73/78⁹ and the IBC Code¹⁰

Not applicable

SECTION 15 Regulatory information

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 |
|-------------|---------|---------|-------------------|-------|
| Acetic acid | 64-19-7 | Present | Active | |

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

Acetic acid (64-19-7)

| | |
|-----------|---------|
| CERCLA RQ | 5000 lb |
|-----------|---------|

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

| Component | State or local regulations |
|----------------------|---|
| Acetic acid(64-19-7) | U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List; U.S. - Minnesota - Hazardous Substance List; U.S. - Massachusetts - Right To Know List; U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List |

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Acetic acid (64-19-7)

Listed on the Canadian DSL (Domestic Substances List)

SECTION 16 Other Information

according to the Hazardous Products Regulation (February 11, 2015) & US HazCom 2024.

Issue date : December 2025

Other information : None.

Safety Data Sheet (SDS), Canada & 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.