

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Product name : Freezer Kleen All Purpose Freezer Cleaner
Product code : 155-8608

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

Use of the substance/mixture : Hard Surface Cleaners of all types (bathroom and kitchen cleansers, furniture polish, etc.)

1.3. Details of the supplier of the safety data sheet

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

1.4. Emergency telephone number

Emergency number : INFOTRAC: 800-535-5053

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

Classification (GHS-US)

Skin Corr. 1A H314 - Causes severe skin burns and eye damage

Full text of H-phrases: see section 16

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US) :



GHS05

Signal word (GHS-US) : Danger
Hazard statements (GHS-US) : H314 - Causes severe skin burns and eye damage
Precautionary statements (GHS-US) : P260 - Do not breathe dust/mist/spray
P264 - Wash hands and forearms thoroughly after handling
P280 - Wear protective gloves/eye protection/face protection
P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310 - Immediately call a poison center/doctor
P321 - Specific treatment (see First aid measures on this label)
P363 - Wash contaminated clothing before reuse
P405 - Store locked up
P501 - Dispose of contents/container in accordance with local/regional/national/international regulations

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

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| Name | Product identifier | % | Classification (GHS-US) |
|-------------------------------------------------------|--------------------|-------|-------------------------------------------------------------------------------------------------------|
| 2-propanol | (CAS No) 67-63-0 | 1 - 5 | Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336 |
| Potassium Hydroxide, 45%=<conc<50%, aqueous solutions | (CAS No) 1310-58-3 | 1 - 5 | Acute Tox. 3 (Oral), H301 Skin Corr. 1A, H314 |
| 2-aminoethanol | (CAS No) 141-43-5 | 1 - 5 | Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Corr. 1B, H314 |

Full text of H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.
- First-aid measures after skin contact : Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a poison center or doctor/physician.
- First-aid measures after eye contact : 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/physician.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor/physician.

4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries : Causes severe skin burns and eye damage.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

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

5.2. Special hazards arising from the substance or mixture

- Reactivity : Thermal decomposition generates : corrosive vapors.

5.3. Advice for firefighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection.
- Emergency procedures : Ventilate area.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Do not breathe dust/mist/spray. Avoid contact during pregnancy/while nursing.
- Hygiene measures : Wash hands and forearms thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Comply with applicable regulations.
- Storage conditions : Keep only in the original container in a cool, well ventilated place away from heat, hot surfaces, sparks, open flame and other ignition sources. No smoking. Keep container closed when not in use.
- Incompatible products : Strong bases. Strong acids.
- Incompatible materials : Sources of ignition. Direct sunlight.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| 2-propanol (67-63-0) | | |
|----------------------|-------------------------------------|------------------------------------------------------------------------------------------|
| ACGIH | ACGIH TWA (ppm) | 200 ppm (2-propanol; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value) |
| ACGIH | ACGIH STEL (ppm) | 400 ppm (2-propanol; USA; Short time value; TLV - Adopted Value) |
| ACGIH | Remark (ACGIH) | Eye & URT irr; CNS impair |
| OSHA | OSHA PEL (TWA) (mg/m ³) | 980 mg/m ³ |
| OSHA | OSHA PEL (TWA) (ppm) | 400 ppm |

| 2-aminoethanol (141-43-5) | | |
|---------------------------|-------------------------------------|------------------------------------------------------------------------------------------|
| ACGIH | ACGIH TWA (ppm) | 3 ppm (Ethanolamine; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value) |
| ACGIH | ACGIH STEL (ppm) | 6 ppm (Ethanolamine; USA; Short time value; TLV - Adopted Value) |
| ACGIH | Remark (ACGIH) | Eye & skin irr |
| OSHA | OSHA PEL (TWA) (mg/m ³) | 6 mg/m ³ |
| OSHA | OSHA PEL (TWA) (ppm) | 3 ppm |

| Potassium Hydroxide, 45%=<conc<50%, aqueous solutions (1310-58-3) | | |
|-------------------------------------------------------------------|----------------|----------------------|
| ACGIH | Remark (ACGIH) | URT, eye, & skin irr |

8.2. Exposure controls

- Personal protective equipment : Avoid all unnecessary exposure.
- Hand protection : Wear protective gloves/eye protection/face protection protective gloves.
- Eye protection : Chemical goggles or face shield.
- Skin and body protection : Wear suitable protective clothing.
- Respiratory protection : Wear appropriate mask.
- Other information : Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state : Liquid
- Color : clear
- Odor : mild
- Odor threshold : No data available
- pH : 13
- Melting point : No data available
- Freezing point : No data available

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| | |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| Boiling point | : 212 - 220 °F |
| Flash point | : ≥ 200 °F |
| Relative evaporation rate (butyl acetate=1) | : No data available |
| Flammability (solid, gas) | : No data available |
| Explosion limits | : No data available |
| Explosive properties | : No data available |
| Oxidizing properties | : No data available |
| Vapor pressure | : No data available |
| Relative density | : 1.031 |
| Relative vapor density at 20 °C | : Same as water |
| Solubility | : Soluble in water. Water: Solubility in water of component(s) of the mixture : •: •: •: •: 82 g/100ml •: •: |
| Log Pow | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Viscosity | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Thermal decomposition generates : corrosive vapors.

10.2. Chemical stability

Stable under normal conditions. Not established.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

Fume. Carbon monoxide. Carbon dioxide. Thermal decomposition generates : corrosive vapors.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

| 2-propanol (67-63-0) | |
|----------------------------------|-------------------------------------------------------------------------------------------|
| LD50 dermal rabbit | 12870 mg/kg (Rabbit; Experimental value; Equivalent or similar to OECD 402; 16.4; Rabbit) |
| LC50 inhalation rat (mg/l) | 73 mg/l/4h (Rat) |
| ATE US (dermal) | 12870.000 mg/kg body weight |
| ATE US (vapors) | 73.000 mg/l/4h |
| ATE US (dust, mist) | 73.000 mg/l/4h |
| 2-aminoethanol (141-43-5) | |
| LD50 oral rat | 1720 mg/kg (Rat) |
| LD50 dermal rabbit | 1018 mg/kg (Rabbit) |
| ATE US (oral) | 1720.000 mg/kg body weight |
| ATE US (dermal) | 1018.000 mg/kg body weight |

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Potassium Hydroxide, 45%=<conc<50%, aqueous solutions (1310-58-3)

| | |
|---------------|---------------------------|
| LD50 oral rat | 273 mg/kg (Rat) |
| ATE US (oral) | 273.000 mg/kg body weight |

| | |
|-----------------------------------|------------------------------------------------------|
| Skin corrosion/irritation | : Causes severe skin burns and eye damage. pH: 13 |
| Serious eye damage/irritation | : Not classified pH: 13 |
| Respiratory or skin sensitization | : Not classified |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |

2-propanol (67-63-0)

| | |
|------------|----------------------|
| IARC group | 3 - Not classifiable |
|------------|----------------------|

| | |
|-----------------------------------------------------|---------------------------------------------------------------------|
| Reproductive toxicity | : Not classified |
| Specific target organ toxicity (single exposure) | : Not classified |
| Specific target organ toxicity (repeated exposure) | : Not classified |
| Aspiration hazard | : Not classified |
| Potential Adverse human health effects and symptoms | : Based on available data, the classification criteria are not met. |

SECTION 12: Ecological information

12.1. Toxicity

2-propanol (67-63-0)

| | |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| EC50 Daphnia 1 | 10000 mg/l (48 h; Daphnia magna) |
| LC50 fish 2 | 9640 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Pimephales promelas; Flow-through system; Fresh water; Experimental value) |
| EC50 Daphnia 2 | 13299 mg/l (EC50; Other; 48 h; Daphnia magna) |
| Threshold limit algae 1 | > 1000 mg/l (EC50; UBA; 72 h; Scenedesmus subspicatus) |

2-aminoethanol (141-43-5)

| | |
|-------------------------|----------------------------------------|
| LC50 fish 1 | 150 mg/l (LC50; 96 h; Salmo gairdneri) |
| EC50 Daphnia 1 | 140 mg/l (EC50; 24 h) |
| Threshold limit algae 2 | 35 mg/l (EC50; 72 h) |

Potassium Hydroxide, 45%=<conc<50%, aqueous solutions (1310-58-3)

| | |
|-------------|----------------------|
| LC50 fish 2 | 80 mg/l (LC50; 96 h) |
|-------------|----------------------|

12.2. Persistence and degradability

Freezer Kleen All Purpose Freezer Cleaner

| | |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |
|-------------------------------|------------------|

2-propanol (67-63-0)

| | |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Persistence and degradability | Readily biodegradable in water. Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. No (test)data on mobility of the substance available. |
| Biochemical oxygen demand (BOD) | 1.19 g O ₂ /g substance |
| Chemical oxygen demand (COD) | 2.23 g O ₂ /g substance |
| ThOD | 2.40 g O ₂ /g substance |

2-aminoethanol (141-43-5)

| | |
|---------------------------------|------------------------------------------------------------|
| Persistence and degradability | Readily biodegradable in water. Biodegradable in the soil. |
| Biochemical oxygen demand (BOD) | 0.80 g O ₂ /g substance |
| Chemical oxygen demand (COD) | 1.34 g O ₂ /g substance |
| ThOD | 2.49 g O ₂ /g substance |
| BOD (% of ThOD) | 0.32 |

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| Potassium Hydroxide, 45%=<conc<50%, aqueous solutions (1310-58-3) | |
|--------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| Persistence and degradability | Biodegradability: not applicable. No (test)data on mobility of the components available. |
| Biochemical oxygen demand (BOD) | Not applicable |
| Chemical oxygen demand (COD) | Not applicable |
| ThOD | Not applicable |

12.3. Bioaccumulative potential

| Freezer Kleen All Purpose Freezer Cleaner | |
|--------------------------------------------------------------------------------|--------------------------------------------------|
| Bioaccumulative potential | Not established. |
| 2-propanol (67-63-0) | |
| Log Pow | 0.05 (Weight of evidence approach; Other; 25 °C) |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). |
| 2-aminoethanol (141-43-5) | |
| Log Pow | -1.91 |
| Bioaccumulative potential | Bioaccumulation: not applicable. |
| Potassium Hydroxide, 45%=<conc<50%, aqueous solutions (1310-58-3) | |
| Bioaccumulative potential | Not bioaccumulative. |

12.4. Mobility in soil

| 2-propanol (67-63-0) | |
|----------------------------------|-------------------|
| Surface tension | 0.021 N/m (25 °C) |
| 2-aminoethanol (141-43-5) | |
| Surface tension | 0.050 N/m |

12.5. Other adverse effects

- Effect on the global warming : No known ecological damage caused by this product.
- Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

- Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container in accordance with local/regional/national/international regulations.
- Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT
Not regulated for transport

TDG

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

| 2-propanol (67-63-0) |
|-----------------------------------------------------------------------------------------------------------------------|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on United States SARA Section 313 |

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2-aminoethanol (141-43-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Potassium Hydroxide, 45%=<conc<50%, aqueous solutions (1310-58-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory
Not listed on the United States SARA Section 313

RQ (Reportable quantity, section 304 of EPA's List of Lists) 1000 lb

15.2. International regulations

CANADA

No additional information available

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US State regulations

No additional information available

SECTION 16: Other information

Revision date : 04/15/2015

Other information : None.

Full text of H-phrases:

| | |
|-----------------------|-------------------------------------------------------------|
| Acute Tox. 3 (Oral) | Acute toxicity (oral) Category 3 |
| Acute Tox. 4 (Dermal) | Acute toxicity (dermal) Category 4 |
| Acute Tox. 4 (Oral) | Acute toxicity (oral) Category 4 |
| Eye Irrit. 2A | Serious eye damage/eye irritation Category 2A |
| Flam. Liq. 2 | Flammable liquids Category 2 |
| Flam. Liq. 4 | Flammable liquids Category 4 |
| Skin Corr. 1A | Skin corrosion/irritation Category 1A |
| Skin Corr. 1B | Skin corrosion/irritation Category 1B |
| STOT SE 3 | Specific target organ toxicity (single exposure) Category 3 |
| H225 | Highly flammable liquid and vapor |
| H227 | Combustible liquid |
| H301 | Toxic if swallowed |
| H302 | Harmful if swallowed |
| H312 | Harmful in contact with skin |
| H314 | Causes severe skin burns and eye damage |
| H319 | Causes serious eye irritation |
| H336 | May cause drowsiness or dizziness |

HMIS III Rating

Health : 2 Moderate Hazard - Temporary or minor injury may occur
Flammability : 0 Minimal Hazard - Materials that will not burn
Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.
Personal Protection : B
B - Safety glasses, Gloves

SDS US (GHS HazCom 2012)

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