

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Product name : CONC. GLASS CLEANER
Product code : C-1010

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

No additional information available

1.3. Details of the supplier of the safety data sheet

CK Industrial
21 Swan Drive
Rexford, NY 12148-1388
T 518-248-0798 - F 518-383-6809
WWW.CHEMICALKNOWHOW.COM

1.4. Emergency telephone number

Emergency number : Chem Tel 800-255-3924

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

| | |
|--|---|
| Flammable liquids, Category 3 | Flammable liquid and vapour |
| Skin corrosion/irritation, Category 1A | Causes severe skin burns and eye damage |
| Serious eye damage/eye irritation, Category 1 | Causes serious eye damage |
| Specific target organ toxicity — Single exposure, Category 3, Narcosis | May cause drowsiness or dizziness |

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US) :



GHS07

Signal word (GHS-US) : Warning

Contains : 2-propanol; ammonium hydroxide, solution, 25%≤conc<35%

Hazard statements (GHS-US) : Causes severe skin burns and eye damage
Combustible liquid

Precautionary statements (GHS-US) : Keep away from heat. - No smoking
Keep container tightly closed
Do not breathe vapours, spray, mist
Wash hands thoroughly after handling
Use only outdoors or in a well-ventilated area
Wear eye protection, protective gloves
If swallowed: rinse mouth. Do NOT induce vomiting
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 doctor
Call a doctor if you feel unwell
Specific treatment (see First Aid measures on this label)
Wash contaminated clothing before reuse
In case of fire: Use ABC-powder to extinguish
Store in a well-ventilated place. Keep container tightly closed
Store locked up

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Dispose of contents/container to an approved waste disposal plant

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

| Name | Product identifier | % | GHS-US classification |
|---|--------------------|---------|--|
| 2-propanol | (CAS No) 67-63-0 | 50 - 54 | Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336 |
| ammonium hydroxide, solution, 25%<=conc<35% | (CAS No) 1336-21-6 | 3 - 5 | Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 |

Full text of H-statements: 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. Call a POISON CENTER or doctor/physician if you feel unwell. |
| First-aid measures after skin contact | : Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. 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 skin irritation. Skin rash/inflammation. |
| Symptoms/injuries after inhalation | : May cause drowsiness or dizziness. |
| Symptoms/injuries after eye contact | : Causes serious eye damage. |

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

Treat symptomatically.

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

| | |
|------------------|--|
| Fire hazard | : Combustible liquid. |
| Explosion hazard | : May form flammable/explosive vapour-air mixture. |
| Reactivity | : Corrosive vapours. |

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

| | |
|------------------|---|
| General measures | : Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking. |
|------------------|---|

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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. Avoid breathing Spray.
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.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Handle empty containers with care because residual vapours are flammable.
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 vapour. No open flames. No smoking. Use only non-sparking tools. Do not breathe spray, vapours, mist. Avoid contact during pregnancy/while nursing. Avoid breathing vapours, spray, mist. Use only outdoors or in a well-ventilated area.
Hygiene measures : Wash hands 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 sources. Keep container tightly closed.
Incompatible products : Strong bases. Strong acids.
Incompatible materials : Sources of ignition. Direct sunlight. Heat sources.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| 2-propanol (67-63-0) | | |
|---|-------------------------------------|---------------------------|
| ACGIH | ACGIH TWA (ppm) | 200 ppm |
| ACGIH | ACGIH STEL (ppm) | 400 ppm |
| 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 |
| ammonium hydroxide, solution, 25%<=conc<35% (1336-21-6) | | |
| Not applicable | | |

8.2. Exposure controls

Personal protective equipment : Gloves. Safety glasses.



Hand protection : Wear protective gloves.
Eye protection : Chemical goggles or face shield.
Skin and body protection : Wear suitable protective clothing.
Respiratory protection : Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.
Other information : Do not eat, drink or smoke during use.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|--|--|
| Physical state | : Liquid |
| Colour | : Blue |
| Odour | : Ammonia odour |
| Odour threshold | : No data available |
| pH | : No data available |
| Melting point | : No data available |
| Freezing point | : No data available |
| Boiling point | : No data available |
| Flash point | : ≈ 172 °F |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Flammability (solid, gas) | : No data available |
| Explosive limits | : No data available |
| Explosive properties | : No data available |
| Oxidising properties | : No data available |
| Vapour pressure | : No data available |
| Relative density | : No data available |
| Relative vapour density at 20 °C | : No data available |
| Solubility | : Water: Solubility in water of component(s) of the mixture : • 2-propanol: Complete • butyl glycoether: Complete • ammonium hydroxide, solution, 25%<=conc<35%: Complete |
| 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

Corrosive vapours.

10.2. Chemical stability

Combustible liquid.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide. May release flammable gases. Thermal decomposition generates : Corrosive vapours.

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) |

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| 2-propanol (67-63-0) | |
|----------------------|----------------------------|
| ATE US (dermal) | 12870.000 mg/kg bodyweight |
| ATE US (vapours) | 73.000 mg/l/4h |
| ATE US (dust,mist) | 73.000 mg/l/4h |

| | |
|-----------------------------------|--|
| Skin corrosion/irritation | : Causes severe skin burns and eye damage. |
| Serious eye damage/irritation | : Causes serious eye damage. |
| Respiratory or skin sensitisation | : 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) | : May cause drowsiness or dizziness. |
| 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. |
| Symptoms/injuries after inhalation | : May cause drowsiness or dizziness. |
| Symptoms/injuries after eye contact | : Causes serious eye damage. |

SECTION 12: Ecological information

12.1. Toxicity

| 2-propanol (67-63-0) | |
|-------------------------|--|
| 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) |

| ammonium hydroxide, solution, 25%<=conc<35% (1336-21-6) | |
|---|------------------------------|
| LC50 fish 1 | 0.16 - 1.1 mg/l (LC50; 96 h) |
| EC50 Daphnia 1 | 2.08 mg/l (LC50; 48 h) |

12.2. Persistence and degradability

| CONC. GLASS 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. Not established. |
| 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 |

| ammonium hydroxide, solution, 25%<=conc<35% (1336-21-6) | |
|---|--|
| Persistence and degradability | Readily biodegradable in water. Ozonation in water. Biodegradable in the soil. No (test)data on mobility of the components available. Ozonation in the air. Not established. |

12.3. Bioaccumulative potential

| CONC. GLASS 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). Not established. |

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| | |
|--|---|
| ammonium hydroxide, solution, 25%≤conc<35% (1336-21-6) | |
| Log Pow | -1.3 |
| Bioaccumulative potential | Bioaccumulation: not applicable. Not established. |

12.4. Mobility in soil

| | |
|-----------------------------|-------------------|
| 2-propanol (67-63-0) | |
| Surface tension | 0.021 N/m (25 °C) |

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 to an approved waste disposal plant.
- Additional information : Handle empty containers with care because residual vapours are flammable.
- 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

Proper Shipping Name (IMDG) : ISOPROPANOL (ISOPROPYL ALCOHOL)

Air transport

Proper Shipping Name (IATA) : Isopropanol

SECTION 15: Regulatory information

15.1. US Federal regulations

| | | |
|---|--|--|
| CONC. GLASS CLEANER | | |
| Not listed on the United States TSCA (Toxic Substances Control Act) inventory | | |

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

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

| | | |
|--|------------------|----------|
| 2-propanol | CAS No 67-63-0 | 50 - 54% |
| ammonium hydroxide, solution, 25%≤conc<35% | CAS No 1336-21-6 | 3 - 5% |

| | |
|--|---------|
| ammonium hydroxide, solution, 25%≤conc<35% (1336-21-6) | |
| CERCLA RQ | 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

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

2-propanol (67-63-0)

U.S. - New Jersey - Right to Know Hazardous Substance List

ammonium hydroxide, solution, 25%<=conc<35% (1336-21-6)

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

Other information : None.

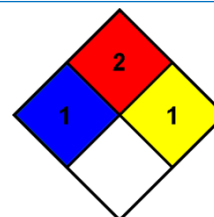
Full text of H-statements:

| | |
|------|---|
| H225 | Highly flammable liquid and vapour |
| H226 | Flammable liquid and vapour |
| H314 | Causes severe skin burns and eye damage |
| H318 | Causes serious eye damage |
| H319 | Causes serious eye irritation |
| H336 | May cause drowsiness or dizziness |
| H400 | Very toxic to aquatic life |

NFPA health hazard : 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.

NFPA fire hazard : 2 - Must be moderately heated or exposed to relatively high temperature before ignition can occur.

NFPA reactivity : 1 - Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with some release of energy, but not violently.



HMIS III Rating

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

Flammability : 2 Moderate Hazard - Materials which must be moderately heated or exposed to high ambient temperatures before ignition will occur. Includes liquids having a flash point at or above 100 F but below 200 F. (Classes II & IIIA)

Physical : 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.

Personal Protection : B
B - Safety glasses, Gloves

SDS US (GHS HazCom 2012)

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