

1. Product and Company Identification

Product Name : AD-H23
Usage : Concentrated Glass Cleaner & Sanitizer.
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Revision date : Jan, 2021.D
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2. Hazards identification

2.1. GHS Classification

Hazard classification product : This product does not contain hazardous chemicals at or above a reportable level.
 The product contains no substances which, at their given concentration, are considered to be hazardous to human health.

Health hazards : Acute toxicity, Oral - Category 3
 Skin corrosion/irritation - Category 3
 Serious eye damage/eye irritation - Category 2A

2.2. GHS Label elements

Hazard pictograms :



Signal Word : WARNING

Hazard Statements : Harmful if swallowed
 Causes serious eye irritation

Inhalation : Do not breathe mist, vapors, spray. Excessive Inhalation may cause irritation in Respiratory system.

Ingestion : May cause some irritation to the mouth and upper digestive tract.

Eye contact : Contact with eyes can cause severe irritation. If not washed out promptly, will injure the tissue, and damage may result

Skin contact : Excessive used, or in cracks skin may cause skin irritation

3. Composition/information on ingredients

Information on hazardous components

Active ingredients	Conc. %	CAS #
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Ethyl alcohol	25.0 - 35.0	64-17-5
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	1.0 3.0	2372-82-9

4. First-aid measures

- Inhalation** : Remove to fresh air. If symptoms persist, call a physician.
- Skin contact** : Remove contaminated clothing. Wash the skin with soap and water. Get medical attention if irritation persists after washing.
- Eye contact** : IMMEDIATELY rinse eyes with plenty water also under the eyelids. Remove any contact lenses, if it easy and applicable. Get medical attention if irritation develops and persists.
- Ingestion** : Rinse mouth, DO NOT induces vomiting. Do not attempt to give anything by mouth to an unconscious person. IMMEDIATELY calls a Physician or Poison Control Center.

5. Fire and explosion measures

- Flammability** : This product is not flammable under normal conditions. Its flashpoint 118.4°F. Considered as combustible material
- Suitable Extinguishing Media** : Water sprays (fog) or foam. Dry chemical. Carbon dioxide (CO₂). Alcohol-resistant foam. Do not use water jet.
- Hazardous thermal decomposition products** : Decomposition products may include carbon dioxide and carbon monoxide.
- Personal protective equipment** : As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
- Standard procedure for chemical fires** : As in any fire:
Fight fire with normal precautions from a reasonable distance.
Do not enter fire area without full protective equipment including respiratory protection.
Exercise caution when fighting any chemical fire.
Use water spray or fog for cooling exposed containers.
Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

6. Accidental release measures

- Personal precautions** : Isolate spill or leak area immediately.
Keep unauthorized personnel away.
Prevent further leakage or spillage if safe to do so.
Material can create slippery conditions so Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate.
- Methods for cleaning up** : For small spills: Wiping with wiper. Flush away traces with water.
For large spills: Vacuum up or soak up with inert absorbent (sand or other non-combustible material). Place in suitable container(s) for disposal. Flush away traces with water.
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways.

7. Handling and storage

- Handling** : Use of safe work practices are recommended to avoid contact with skin and eyes or inhalation. Keep away from food, drink and animal feeding stuffs. Use good personal hygiene practices:
Do not eat, drink or smoke when using this product.
Wash hands before eating, drinking, smoking, or using toilet facilities.
Wash thoroughly after work and handling using soap and water.
Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
- Storage** : Keep in a dry, cool and well-ventilated place.
Store in original container, protected from direct sunlight, away from all ignition sources. Separate from oxidizing materials.
Keep container closed when not in use.
Check regularly for leaks or spills. KEEP OUT OF REACH OF CHILDREN.

8. Exposure controls and personal protection

- Occupational Exposure Limits:** : Ethyl Alcohol
OSHA PEL (TWA): 1900 mg/m³, 1000 ppm
NIOSH REL (TWA): 1900 mg/m³, 1000 ppm
ACGIH (STEL): 1000 ppm
- Eye/Face protection** : No special requirements.
- Hand/Skin Protection** : Not required under normal use.
- Respiratory** : Personal respiratory protective equipment normally required.
- Engineering Controls** : Ensure adequate ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. This may be achieved by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. Ensure that eyewash stations and safety showers are proximal to the work-station location. Only mix product in plastic containers or buckets.
- Hygiene measures** : Wash thoroughly after handling. Avoid contact with skin, eyes and clothing.

9. Physical and chemical properties

Appearance	: Clear Liquid
Color	: Blue
Odor	: Alcohol
PH	: 9.5 – 10.5
Flash Point (°C)	: > 70
Relative density (g/cm³)	: 0.90 - 1.00
Solubility	: 100% Soluble

10. Stability and reactivity

Reactivity	: Non-reactive under normal conditions of use.
Chemical Stability	: Stable at room temperature in closed containers under normal storage and handling conditions.
Hazardous Reactions	: No dangerous reaction known under conditions of normal use. Hazardous Polymerization will not occur.
Condition to Avoid	: Ignition sources (flames, sparks, static), excess heat, extremes of temperature and direct sunlight.
Incompatible Materials	: Strong oxidizing agents. Strong alkaline material.
Hazardous Decomposition Products	: May include carbon monoxide, carbon dioxide (CO ₂) and other toxic gases or vapors.

11. Toxicological information

Acute Toxicity	: <u>Ethyl Alcohol</u> Oral LD50: 7060 mg/kg (Rat) Dermal LD50 > 15800 mg/kg bw (Rabbit) Inhalation LC50: 124.7 mg/m ³ (Rat, 4 hrs.) <u>N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine</u> LD50 Oral - 260 mg/kg (Rat) LD50 Dermal - >600 mg/kg (rat)
Likely routes of exposure	: Eyes, Skin, Ingestion, Inhalation.
Acute Potential Health Effects	: None
Chronic Potential Health Effects	: <u>Skin:</u> redness and cracking of the skin depending on the concentration, site (abraded or intact skin), and duration of exposure. <u>Eyes:</u> Pain, redness, swelling of the conjunctiva and blurred vision. <u>Ingestion:</u> Pain, nausea, vomiting and diarrhea. <u>Inhalation:</u> Nasal discomfort and coughing.
Carcinogenicity	: No components present at 0.1% or greater are listed as to being carcinogens by ACGIH, IARC, NTP or OSHA.

12. Ecological information

- Ecotoxicity effects** : Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.
Ecotoxicity of Ethyl Alcohol
Aquatic toxicity is unlikely to occur.
fish: LC50 (Pimephales promelas (fathead minnow)): > 1,000 mg/l
Exposure time: 96 h
daphnia and other aquatic invertebrates: EC50 (Daphnia magna (Water flea)): > 1,000 mg/l
Algae: EC50 (Chlorella vulgaris (Fresh water algae)): 275 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to bacteria: EC50 (Photobacterium phosphoreum): 32.1 mg/l Exposure time: 0.25 h
- Persistence and degradability** : Readily biodegradable (77% in 10 days)
- Bio accumulative potential** : Low potential for bioaccumulation (Log Kow < 4).
- Mobility in soil** : No data available.

13. Disposal considerations

- Waste Stream** : Non-hazardous waste.
- Disposal conditions** : Recover or recycle if possible.
Do not dispose into the environment. Waste product should not be allowed to contaminate soil or water sources.
Disposal should be in accordance with applicable regional, national, and local laws and regulations.
- Disposal of containers** : Consumer may discard empty container in trash or reused after perfect clean from residual material, or recycle where facilities exist.

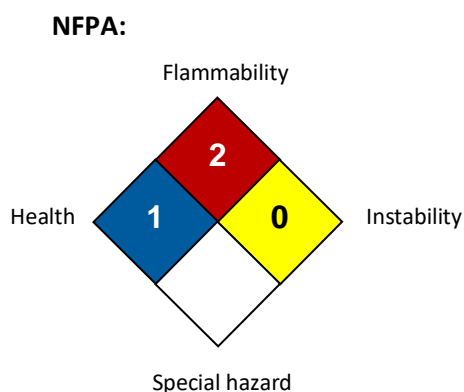
14. Regulatory information

- TSCA Inventory Status** : All substances listed as active on the TSCA inventory
- Canadian Domestic Substances List (DSL)** : All components of this product are on the Canadian DSL
- Australia Inventory of Chemical Substances (AICS)** : On the inventory, or in compliance with the inventory
- California Proposition 65** : This product is not subject to warning requirements under California Proposition 65.
- SARA 302** : This material does not contain any components with a section 302 EHS TPQ.
- SARA 304** : This material does not contain any components with a section 304 EHS RQ.
- SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
- WHMIS Canada** : Class B-2: Flammable liquid.
- SARA 313** : IPA is subject to the reporting requirements of this section listed in 40 CFR 372

15. Transport information

- Land transport (DOT)** : These products are not regulated when transported by ground
- Air transport (IATA)** : These products are not regulated when transported by air
- Sea transport (IMDG)** : These products are not regulated when transported by vessel
- Other Shipping Information** : Certain shipping modes and packaging sizes may have exceptions from the transport regulations.

16. Other information



HMIS III:

HEALTH	1
FLAMMABILITY	2
PHYSICAL HAZARDS	0
PERSONAL PROTECTION	P

0 = not significant, 1 = Slight,
2 = Moderate, 3 = High,
4 = Extreme, * = Chronic

The information of this MSDS is based on the present state of our knowledge and on current EEC and national laws. It is always the responsibility of the user to take all necessary steps in order to fulfill the demand laid down in the local rules and legislation. The information in this MSDS is meant as a description of the safety requirements of our product. It is not to be considered as guarantee of the product's properties.

- References:** Not available.
- Other Special Considerations:** Not available.