

1. Product and Company Identification


Product Name	: AD-K8
Usage	: Rinse aid additives
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Revision date	: Jan, 2021.D
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2. Hazards identification

2.1. GHS Classification

Product classification	: 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 may it developed to burns.

3. Composition/information on ingredients



Information on hazardous components

Active ingredients	Conc. %	CAS #
Isopropyl alcohol	10-15	67-63-0
Polymer	1-5	-
Non-ionic surfactant	1-5	-

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 possible. Get medical attention if irritation develops and persists.
- Ingestion** : If swallowed, DO NOT induces vomiting. Rinse mouth IMMEDIATELY calls a Physician or Poison Control Center.

5. Fire and explosion measures

- Flammability** : This product is not flammable under normal conditions.
- 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.
- 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

- Exposure Limits:** : *Isopropyl alcohol:*
OSHA PEL: (TWA) 400 ppm (TWA) 980 mg/m³
NIOSH REL: (TWA) 400 ppm (TWA) 980 mg/m³ (IDLH) 2000 ppm
ACGIH: (TWA) 200 ppm (STEL) 400 ppm
- Eye/Face protection** : No specific eye protection required during normal use.
- Hand/Skin Protection** : Protective gloves.
- 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 workstation 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	: Natural
PH	: 2 - 3
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 Bases.
Hazardous Decomposition Products	: May include carbon monoxide, carbon dioxide (CO ₂) and other toxic gases or vapors.

11. Toxicological information

Toxicity Data	: <u>Isopropyl alcohol</u> Oral LD50, mouse: 3600 mg/kg Oral LD50, rabbit: 6410 mg/kg Oral LD50, rat: 5000 mg/kg Skin LD50, rabbit: 12800 mg/kg, Inhalation LC50, rat: 16000 ppm/8H.
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	: This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
Germ Cell Mutagenicity	: The limited information located does not suggest that the components of the product are mutagenic.
Reproductive Toxicity	: This material has been classified as non-hazardous.



12. Ecological information

- Ecotoxicity** : Not regarded as dangerous for the environment.
The product ingredients are expected to be safe for the environment at the concentrations predicted under normal use and accidental spill scenarios. Aquatic toxicity is unlikely to occur.
- Ecotoxicity of isopropyl alcohol in water:**
Toxicity to algae: >1000: 72 h *Desmodesmus subspicatus* mg/L EC50
 >1000: 96 h *Desmodesmus subspicatus* mg/L EC50
Toxicity to fish: 11130: 96 h *Pimephales promelas* mg/L LC50 static 9640:
 96 h *Pimephales promelas* mg/L LC50 flow-through >1400000: 96 h
Lepomis macrochirus µg/L LC50
Toxicity to daphnia and other aquatic invertebrates: 13299: 48 h
Daphnia magna mg/L EC50
BOD5 and COD: No data available.
Mobility in soil: Will likely be mobile in the environment due to its volatility. aqueous solution has high mobility in soil
- Persistence and degradability** : The surfactant(s) contained in this product complies (comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents.
- Bio accumulative potential** : The product does not contain any substances expected to be bioaccumulating.

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** : Rinse out empty container with water and consign to normal waste.

14. Regulatory information

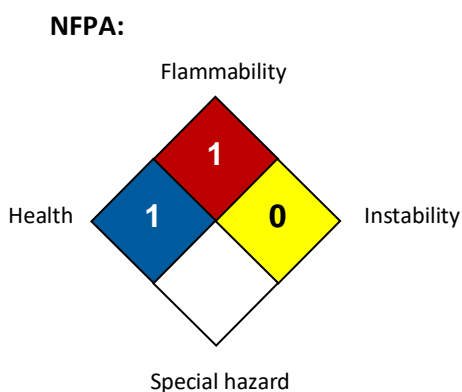
- TSCA Inventory Status** : (Toxic Substance Control Act Section 8(b) Inventory)
All chemical substances in this product are included on or exempted from listing on the TSCA Inventory of Chemical Substances.
- California Proposition 65** : This product is not subject to warning requirements under California Proposition 65.
- 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.

15. Transport information

Not dangerous good

- 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

16. Other information



HMIS III:

HEALTH	1
FLAMMABILITY	1
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.