



COMPLETE CLEANING SOLUTIONS

SAFETY DATA SHEET

ACP 442 – Formula #442 Ready to Use Acid Free Disinfectant

Date: 9/05/2024

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name Formula #442 Ready to Use Acid Free Disinfectant

Other Means of Identification

Product Class Quaternary Ammonium Chloride Compound
EPA Registration Number 1839-83-5747
Product Code ACP 442

Recommended Use of the Chemical and Restrictions on Use

Recommended Use Ready to use disinfectant cleaner for hard nonporous surfaces.

Details of the Supplier of the Safety Data Sheet

Manufacturer Address Arrow Chemical Products, Inc.
5933 W. KL Ave.
Kalamazoo, MI 49009

Emergency Telephone Number

Company Phone Number 313-237-0277
Emergency Telephone INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Classification

Acute Toxicity, Oral	Category 4
Skin corrosion/ Irritation	Category 2 Subcategory A
Serious eye damage/eye irritation	Category 2

Signal Word

WARNING

Hazard Statements

Causes eye and skin irritation.
May be harmful if swallowed.

OSHA/HCS status:

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Read complete product label.

GHS label elements:



NOTE: Pictograms **NOT** permitted on label. EPA Reg. Product
See section 15 Regulatory Information

Appearance: Clear or Blue

Physical State: Liquid

Odor: Pleasant Fragrance

Precautionary Statements - Prevention

Keep container tightly closed. No smoking. Use only with adequate ventilation. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear protective equipment as required.

Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER or doctor/physician if irritation persists.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if irritation persists.

IF SWALLOWED: call a doctor or poison control center for advice. Rinse mouth. DO NOT induce vomiting.

Precautionary Statements - Storage

Store locked up. Keep container tightly closed when not in use. Store in a cool, well ventilated place. Store away from incompatible materials. KEEP OUT OF REACH OF CHILDREN.

Precautionary Statements - Disposal

Dispose of contents/container in accordance with all regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Diethylene glycol monobutyl ether	112-34-5	5-10
Tetrasodium ethylenediamine tetraacetate	64-02-8	1-5
Alcohols, C9-11, ethoxylated	68439-46-3	0-1
Silica acid, disodium salt	6834-92-0	0-1
Alkyl Dimethyl Ammonium Chloride	68391-01-5	0-1
Water	7732-18-5	80-90

4. FIRST AID MEASURES

First Aid Measures

- Inhalation** Move to fresh air. If breathing is difficult give oxygen. If symptoms persist, call a physician.
- Eye Contact** Immediately flush with plenty of water. Remove contact lenses and continue flushing with water for 15 minutes. Call a physician if irritation persists.
- Ingestion** Do NOT induce vomiting. Rinse mouth. Call a poison control center or doctor immediately for treatment advice. Never give anything by mouth to an unconscious person.
- Skin Contact** Take off contaminated clothing. Rinse skin with plenty of water for 15 minutes. Call a poison control center or doctor for treatment advice. .

Indication of any Immediate Medical Attention and Special Treatment Needed

Ingesting large amounts of this product may produce gastrointestinal disturbances including irritation, nausea, and diarrhea.

- Note to Physicians** Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Water fog, foam, dry chemical powder. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media

None known

Specific Hazards Arising from the Chemical

Irritating and toxic gasses or fumes may be released during a fire. Use water spray to keep fire-exposed containers cool.

Protective Equipment and Precautions for Firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions Immediately evacuate personnel to safe areas. Wear appropriate protective equipment and clothing during clean-up. Do not breathe vapors.

Methods and Material for Containment and Cleaning Up

Methods for Containment Keep unnecessary and unprotected personnel away. Shut off all ignition sources. Prevent further leakage or spillage if safe to do so. Local authorities should be advised if significant spillages cannot be contained.

Methods for Cleaning Up Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into container for later disposal. Do not flush into surface water or sanitary sewer system. Dispose of the waste material according to local, state and government requirements. Following product recovery, flush area with water.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Advice on Safe Handling Protect material from direct sunlight. Do not breathe vapor. Use personal protective equipment as required. Ensure adequate ventilation, especially in confined areas. Avoid contact with skin, eyes or clothing. Do not taste or swallow. In case of insufficient ventilation, wear suitable respiratory equipment. Use only with adequate ventilation or outdoors. Wash hands thoroughly after handling.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions Store locked up. Keep containers tightly closed in a dry, cool and well-ventilated place with a temperature not lower than 50°F or higher than 120°F. Store out of direct sunlight, and away from incompatible materials. .

Incompatible Materials Incompatible with strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Diethylene glycol monobutyl ether 112-34-5	25 ppm	-	-

Appropriate Engineering Controls

Engineering Controls Ensure adequate ventilation, especially in confined areas. Eye wash facilities and emergency shower should be near workstation.

Individual Protection Measures, such as Personal Protective Equipment

Personal protective equipment should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Eye/Face Protection Tight sealing safety goggles, face protection shield.

Skin and Body Protection Wear protective gloves.

Respiratory Protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive pressure supplied respirators may be required for high airborne contaminant concentrations.

General Hygiene Considerations When using this product do not eat, drink, or smoke. Wash contaminated clothing before reuse. Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State	Liquid	Odor	Pleasant Fragrance
Appearance	Clear or Blue	Odor Threshold	N/A
Color	Clear or Blue		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	11.0 – 13.0	
Flash Point	> 201°F	Pensky-Martens Closed Cup
Evaporation Rate	Not determined	
Specific Gravity	1.007 (8.38 lb/gal)	
Water Solubility	Complete	

10. STABILITY AND REACTIVITY

Chemical Stability
Stable under normal use, storage and transport conditions.

Possibility of Hazardous Reactions
None under normal processing and storage.

Conditions to Avoid
Incompatible materials.

Incompatible Materials
Strong oxidizing agents.

Hazardous Decomposition Products
Upon decomposition, this product may yield oxides of nitrogen and ammonia, carbon dioxide, carbon monoxide and other low molecular weight hydrocarbons.

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Inhalation Not likely, due to the form of the product.

Eye Contact Contact with eyes may cause irritation.

Skin Contact Contact may cause skin irritation.

Ingestion Harmful if swallowed.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Diethylene glycol monobutyl ether 112-34-5	6560 mg/kg (Rat)	4120 mg/kg (Rabbit)	-

Information on Physical, Chemical and Toxicological Effects

Symptoms Causes irritation to the eyes including redness, tearing and blurred vision.

Delayed and Immediate Effects as well as Chronic Effects from Short and Long-term Exposure

Carcinogenicity No components of this product have been identified as a carcinogen or potential carcinogen by ACGIH, OSHA, IARC or NTP.

Numerical Measures of Toxicity

Unknown Acute Toxicity None known

12. ECOLOGICAL INFORMATION

Ecotoxicity

Persistence and Degradability

Readily biodegradable

Bioaccumulation

Does not accumulate or bio-magnify in the environment.

Other Adverse Effects

No information available.

13. DISPOSAL CONSIDERATIONS

Disposal of Wastes Disposal of this product, solutions and any by-products must comply with the requirements of the EPA and regional local authority requirements.

Containers Disposal should be in accordance with the requirements of the EPA and local laws and regulations.

14. TRANSPORT INFORMATION

Note

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

**US – Ground Transportation:
DOT**

UN1760 Corrosive Liquid, N.O.S. (Quaternary Ammonium Compound), 8, III

IATA UN1760 Corrosive Liquid, N.O.S. (Quaternary Ammonium Compound), 8, III

IMDG UN1760 Corrosive Liquid, N.O.S. (Quaternary Ammonium Compound), 8, III

15. REGULATORY INFORMATION

<u>International Inventories</u>	Listed Yes or No	
TSCA	United States Toxic Substances Control Act Section 8(b) Inventory	Yes
DSL	Canadian Domestic Substances List	Yes
NDSL	Non-Domestic Substances List	No
EINECS	European Inventory of Existing Chemical Substances	Yes
ELINCS	European List of Notified Chemical Substances	Yes
ENCS	Japan Existing and New Chemical Substances	Yes
IECSC	China Inventory of Existing Chemical Substances	Yes
KECL	Korean Existing and Evaluated Chemical Substances Yes	Yes
PICCS	Philippines Inventory of Chemicals and Chemical Substances	Yes
New Zealand	New Zealand Inventory	Yes

US Federal Regulations

This product is a pesticide registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals.

EPA Registration Number 1839-83-5747

SARA 313 Not regulated

US State Regulations No ingredients listed

California Proposition 65 No ingredients listed

16. OTHER INFORMATION

<u>NFPA</u>	Health Hazards	Flammability	Instability	
	1	0	0	
<u>HMIS</u>	Health Hazards	Flammability	Reactivity:	Personal Protection
	1	0	0	B

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet