



COMPLETE CLEANING SOLUTIONS

SAFETY DATA SHEET

ACP – 451 – Concentrated Glass & Surface Cleaner

Date: 9/05/2024

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name Concentrated Glass & Surface Cleaner

Other Means of Identification

Product Code 451

Recommended Use of the Chemical and Restrictions on Use

Recommended Use Glass & Hard Surface Cleaner
Uses Advised Against For industrial and institutional use only

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

Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2

Signal Word NONE

Hazard Statements

Causes skin irritation
Causes eye irritation

Appearance: Blue liquid

Physical State: Liquid

Odor: Alcohol

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Isopropyl alcohol	67-63-0	10-20
Monoethanolamine	141-43-5	0-10
Alkyl Polyglycoside	132778-08-6	0-10
Alcohol Ethoxylate	68439-46-3	0-10

4. FIRST AID MEASURES

First Aid Measures

General Advice	Provide this SDS to medical personnel for treatment.
Inhalation	Remove exposed individual(s) to fresh air for 20 minutes. Consult a physician / poison center if individual's condition declines or if symptoms persist.
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediate medical attention is required.
Ingestion	Rinse mouth. Do NOT induce vomiting. Drink plenty of water if able to do so. Get medical attention immediately.
Skin Contact	Wash off immediately with plenty of water. Get medical attention if irritation occurs.

Most Important Symptoms and Effects, both Acute and Delayed

Symptoms	Direct contact may cause eye & skin irritation.
-----------------	-------------------------------------------------

Indication of any Immediate Medical Attention and Special Treatment Needed

Note to Physicians	Treat symptomatically.
---------------------------	------------------------

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Dry chemical, CO2 or water spray.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

This product is not expected to present a fire hazard.

Hazardous Combustion Products	Carbon monoxide and other toxic vapors.
--------------------------------------	-----------------------------------------

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions	Wear protective clothing as required.
-----------------------------	---------------------------------------

Methods and Material for Containment and Cleaning Up

Methods for Containment Prevent further leakage or spillage if safe to do so. Absorb spill with inert material (e.g. dry sand or earth).

Methods for Cleaning Up Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice. Wash face, hands, and any exposed skin thoroughly after handling. Keep containers closed when not in use.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions Keep container tightly closed and store in a cool, dry and well-ventilated place. Keep out of the reach of children. Keep away from heat, sparks, and flame.

Incompatible Materials Strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Isopropyl alcohol 67-63-0	STEL: 400 ppm TWA: 200 ppm	TWA: 400 ppm	TWA: 400 ppm

Appropriate Engineering Controls

Engineering Controls Good general room ventilation should be adequate under normal conditions.

Individual Protection Measures, such as Personal Protective Equipment

Eye/Face Protection Not needed for most applications. Wear safety goggles when mist, spray or liquid could get in eyes.

Skin and Body Protection Wear protective gloves if prolonged contact is expected.

Respiratory Protection No special equipment needed.

General Hygiene Considerations 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	Alcohol
Appearance	Blue liquid	Odor Threshold	Not determined
Color	Not determined		
Property	Values	Remarks • Method	
pH	11.0 – 12.0		
Melting Point/Freezing Point	Not available		
Boiling Point/Boiling Range	Not determined		

Flash Point	Not available	
Evaporation Rate	1	Water = 1
Flammability (Solid, Gas)	Not determined	
Upper Flammability Limits	Not available	
Lower Flammability Limit	Not available	
Vapor Pressure	Not determined	
Vapor Density	Not determined	
Specific Gravity	0.96	
Water Solubility	Completely soluble	
Solubility in Other Solvents	Not determined	
Partition Coefficient	Not determined	
Auto ignition Temperature	Not determined	
Decomposition Temperature	Not determined	
Kinematic Viscosity	Not determined	
Dynamic Viscosity	Not determined	
Explosive Properties	Not an explosive	
Oxidizing Properties	Not determined	
VOC Content (%)	Not determined	

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to Avoid

Excessive heat and contamination of any kind.

Incompatible Materials

Strong oxidizing agents.

Hazardous Decomposition Products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Product Information

Inhalation	May cause irritation of respiratory tract.
Eye Contact	Direct contact may cause eye irritation.
Skin Contact	Prolonged contact may cause skin irritation.
Ingestion	May cause discomfort if swallowed.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Isopropyl alcohol 67-63-0	5050 mg/kg (Rat)	12800 mg/kg (Rabbit)	-

Monoethanolamine 141-43-5	1515 mg/kg (Rat)	2504 mg/kg (Rabbit)	>1.3 mg/l 6h (Rat)
------------------------------	------------------	---------------------	--------------------

Information on Physical, Chemical and Toxicological Effects

Symptoms Direct contact may eye irritation which may include redness and pain. Prolonged contact may cause skin irritation which may include redness and dryness.

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 carcinogens or potential carcinogens by ACGIH, IARC, NTP or OSHA.

Numerical Measures of Toxicity
Not determined

12. ECOLOGICAL INFORMATION

Ecotoxicity

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Isopropyl alcohol 67-63-0		LC50: Pimephales promelas 9640 mg/L 96 h		EC50: Daphnia magna 1400 mg/L 48 h
Monoethanolamine 141-43-5	EC50: Selenastrum capricornutum 2.5 mg/l 72 h	LC50: Cyprinus carpio 349 mg/l 96 h	EC50: Daphnia Magna 65 mg/l 48 h	65: 48 h Daphnia magna mg/L EC50

Persistence and Degradability

Raw materials are readily biodegradable

Bioaccumulation
Not determined

Mobility
Not determined

Other Adverse Effects
Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging Disposal should be in accordance with applicable regional, national 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.

DOT UN1993 Flammable liquids, n.o.s. (Isopropyl Alcohol Solution), 3, III

IATA UN1993 Flammable liquids, n.o.s. (Isopropyl Alcohol Solution), 3, III

IMDG UN1993 Flammable liquids, n.o.s. (Isopropyl Alcohol Solution), 3, III

15. REGULATORY INFORMATION

International Inventories

TSCA	Listed
DSL	Listed
NDSL	Listed

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

US Federal Regulations

SARA 313

No ingredients are listed.

US State Regulations

California Proposition 65 No components are listed

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Isopropyl alcohol 67-63-0	X		X
Monoethanolamine 141-43-5	X	X	X

16. OTHER INFORMATION

<u>NFPA</u>	Health Hazards	Flammability	Instability	Special Hazards
	1	1	0	Not determined
<u>HMIS</u>	Health Hazards	Flammability	Physical Hazards	Personal Protection
	1	1	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 a 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