

SECTION 1 – IDENTIFICATION

NAME: AR-2000 PLUS #2

USE: Rinse additive for dishwasher

MANUFACTURER: B.O.D. CHEMICALS INC.
3300, Star Street, Saint-Hubert, Qc, Canada, J3Y 3W6
Phone : (450) 443-5556 / Fax : (450) 443-6230 / Email : info@chimiquesbod.com

EMERGENCY PHONE: 1 (877) 565-8540

SECTION 2 – HAZARDS IDENTIFICATION

GHS CLASSIFICATION

PHYSICAL HAZARDS: Flammable liquid, category 3

HEALTH HAZARDS: Serious eye damage / Eye irritation, category 2A

ENVIRONMENTAL HAZARDS: Not available

GHS LABEL ELEMENTS

PICTOGRAM:



SIGNAL WORD: WARNING

HAZARD STATEMENTS: Flammable liquid and vapour.
Causes serious eye irritation.

PRECAUTIONARY STATEMENTS

PREVENTION: Keep away from heat/sparks/open flames/hot surfaces. No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wash hands thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.

RESPONSE: **In case of fire:** Use water spray, carbon dioxide, dry chemical or alcohol foam for extinction. **If on skin (or hair):** Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. **If in eyes:** Rinse immediately and cautiously with water for 10 minutes. Remove contact lenses, if present and easy to do. Continue rinsing, keeping eyelids open. If eye irritation persists: Get medical advice/attention.

STORAGE / DISPOSAL: Store in a well-ventilated place. Keep cool. Dispose of contents/container in accordance with local regulations (see 13th section).

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENT	CAS	% (W/W)
Citric Acid	000077-92-9	10 - 30
Isopropyl alcohol	000067-63-0	10 - 30

SECTION 4 – FIRST AID MEASURES

SKIN: Remove contaminated clothing. Rinse skin with water. Consult a physician if irritation persists.

EYES: Rinse cautiously with water for 10-15 minutes, keeping eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing. Consult a physician.

INGESTION: Rinse mouth. Do not induce vomiting. Drink 3 to 4 glasses of water. Do not give anything by mouth if victim is unconscious. Consult a physician if irritation occurs.

INHALATION: Breathe fresh air. Give artificial respiration if necessary. Consult a physician if discomforts persist.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED: Eyes: Causes serious eye irritation. Symptoms may include tingling, watery eyes, redness, swelling and blurred vision.

TO PHYSICIAN: Treat symptoms.

SECTION 5 – FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: Water spray, carbon dioxide, chemical powder, foam.

UNSUITABLE EXTINGUISHING MEDIA: Do not use water jet as an extinguisher, as this will spread the fire.

SPECIFIC HAZARDS OF THE HAZARDOUS PRODUCT: The product is flammable. In case of fire, toxic fumes are emitted. The product does not burn itself but can decompose during heating to produce carbon monoxide and dioxide and toxic fumes. Vapors may cause a flash fire or ignite explosively. Prevent buildup of vapors or gases to explosive concentrations.

SPECIAL FIRE FIGHTING PROCEDURES: Wear protective clothing and self-contained breathing apparatus if necessary.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES: Ventilate enclosed areas. Avoid contact of the product with eyes and skin. Do not breathe vapours. Wear gloves, safety goggles and respirator if needed. Prevent discharge in sewers. Keep away from incompatible materials.

ENVIRONMENTAL PRECAUTIONS: Avoid the spillage or runoff entering drains, sewers or watercourses.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Wear protective clothing. Control spill to prevent runoff into sewers. Cover with inert absorbent material and recover in suitable containers. Sweep and rinse with water.

SECTION 7 – HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Avoid contact of the product with eyes and skin. Do not breathe vapours. Do not eat, drink or smoke when using this product. Wash hands after handling.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES: Keep containers closed, in fresh, dry and well ventilated area, away from incompatible materials.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS

INGREDIENT	CAS	VALUE	REGULATION
Isopropyl Alcohol	67-63-0	VEMP: 983 mg/m ³	RSST

APPROPRIATE ENGINEERING CONTROL: Normal ventilation

PERSONAL PROTECTIVE EQUIPMENT



SKIN: Impermeable gloves suggested.

EYES: Safety goggles suggested.

RESPIRATORY: Generally not required.

HYGIENE MEASURES: Wash hands after handling.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE / FORM: Clear liquid

COLOR: Pink

ODOR: Alcohol

ODOR THRESHOLD: Not available

pH: 1 - 3

MELTING POINT / FREEZING POINT (°C): < 0

BOILING POINT (°C): > 100

FLASH POINT (°C): Not available

EVAPORATION RATE: Not available

EXPLOSIVE LIMITS: Not available

VAPOUR PRESSURE: Not available

VAPOUR DENSITY: Not available

DENSITY (kg/L): 1.05 - 1.07

WATER SOLUBILITY: Complete

PARTITION COEFFICIENT / N-OCTANOL/WATER: Not available

AUTOIGNITION TEMPERATURE (°C): Not available

DECOMPOSITION TEMPERATURE (°C): Not available

SECTION 10 – STABILITY AND REACTIVITY

REACTIVITY: No dangerous reaction known under conditions of normal use.

STABLE: Stable at normal ambient temperatures and when used as recommended.

HAZARDOUS REACTIONS: Hazardous polymerisation does not occur.

CONDITIONS TO AVOID: High temperatures, sparks, flames. Contact with incompatible materials.

INCOMPATIBILITY: Chlorinated agents (bleach), alkalis, strong comburant agents, soft metals (Al, Zn, Sn).

HAZARDOUS DECOMPOSITION PRODUCTS: Not available.

SECTION 11 – TOXICOLOGICAL INFORMATION

INFORMATION ON LIKELY ROUTES OF EXPOSURE

SKIN: May cause an irritation.

EYES: Causes serious eye irritation.

INHALATION: May cause an irritation.

INGESTION: May cause an irritation.

NUMERIC VALUES OF TOXICITY

ACUTE ORAL TOXICITY:	LD50 (rat): 8247 mg/kg
ACUTE DERMAL TOXICITY:	Not available. No health effects (normal conditions of use).
ACUTE INHALATION TOXICITY:	Not available. No health effects (normal conditions of use).
<u>DELAYED AND IMMEDIATE EFFECTS</u>	
SKIN CORROSION / IRRITATION:	No health effects (normal conditions of use).
SERIOUS EYE DAMAGE / EYE IRRITATION:	Causes serious eye irritation.
RESPIRATORY SENSITIZATION:	Not expected to cause respiratory sensitization.
SKIN SENSITIZATION:	Not expected to cause skin sensitization.
GERMINAL CELL MUTAGENICITY:	No data available to indicate product or components present at greater than 0.1% are mutagenic or genotoxic.
CARCINOGENICITY:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen.
REPRODUCTIVE TOXICITY:	No potential reproductive toxicity.
SPECIFIC TARGET ORGAN TOXICITY-SINGLE EXPOSURE:	Not classified.
SPECIFIC TARGET ORGAN TOXICITY-REPEATED EXPOSURE:	Not classified.
ASPIRATION HAZARD:	Not classified.

SECTION 12 – ECOLOGICAL INFORMATION

ECOTOXICITY:	Citric acid LC50, Fish, 440 mg/l - 48h LC50, Daphnia magna, 1535 mg/l - 24h
PERSISTENCE AND DEGRADABILITY:	Not available
BIOACCUMULATIVE POTENTIAL:	Not available.
MOBILITY IN SOIL:	Not available
OTHER ADVERSE EFFECTS:	Not available

SECTION 13 – DISPOSAL CONSIDERATIONS

DISPOSAL INSTRUCTIONS:	Collect in appropriate containers and recycle or dispose the product at a licensed waste disposal site or in accordance with local regulations. Avoid the spillage or runoff entering drains, sewers or watercourses.
HAZARDOUS WASTE CODE:	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
CONTAMINATED PACKAGING:	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14 – TRANSPORT INFORMATION

TDG:	UN1993, FLAMMABLE LIQUID, N.O.S., (Isopropyl Alcohol), Class 3, PG II
SPECIAL PRECAUTIONS FOR USER:	Read safety instructions, SDS and emergency procedures before handling.

SECTION 15 – REGULATORY INFORMATION

SECTION 16 – OTHER INFORMATION

PRODUCT NAME: AR-2000 PLUS #2

IN CASE OF ACCIDENTAL SPILL: CANUTEC (Canada): 1 (613) 996-6666

PREPARED BY: B.O.D. CHEMICALS INC.

PHONE: (450) 443-5556

DATE: December 6th, 2018

B.O.D. CHEMICALS INC. assume no responsibility for damages or physical injuries resulting in the use of this product. The user recognizes the risk in the use of this product and must consult and respect directions and dangers of this product.