

SECTION 1 – IDENTIFICATION

NAME: AR-2000 #2

USE: Rinse additive for dishwasher

MANUFACTURER: B.O.D. CHEMICALS INC.
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SECTION 2 – HAZARDS IDENTIFICATION

GHS CLASSIFICATION

PHYSICAL HAZARDS: Flammable liquid, category 3

HEALTH HAZARDS: Skin corrosion / Irritation, category 2
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 skin irritation.
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:** Wash with plenty of soap and water. Specific treatment (see supplemental first aid instructions on the label). **If skin irritation occurs:** Get medical advice/attention. Take off contaminated clothing and wash before reuse. **If in eyes:** Rinse cautiously with water for 10-15 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. Store locked up. Dispose of contents/container in accordance with local regulations (see 13th section).

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENT	CAS	% (W/W)
Ethylene oxide/Propylene oxide copolymer	009003-11-6	7- 13
Isopropyl alcohol	000067-63-0	7 - 13

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 if irritation persists.

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.

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

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED: Skin: Irritation, redness. 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: Green
ODOR: Light
ODOR THRESHOLD: Not available
pH: 3.0 - 3.5
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): 0.99 - 1.01
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: Strong comburants, strong oxidizing agents.
HAZARDOUS DECOMPOSITION PRODUCTS: Not available.

SECTION 11 – TOXICOLOGICAL INFORMATION

INFORMATION ON LIKELY ROUTES OF EXPOSURE

SKIN: Causes skin irritation.
EYES: Causes serious eye irritation.
INHALATION: No serious effect.
INGESTION: May cause an irritation.

NUMERIC VALUES OF TOXICITY

ACUTE ORAL TOXICITY:	LD50 (rat): 2231 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).

DELAYED AND IMMEDIATE EFFECTS

SKIN CORROSION / IRRITATION:	Causes skin irritation.
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:	Ethylene oxide/Propylene oxide copolymer LC50 Pimephales promelas, 96h, 11.3 mg/l EC50 Daphnia magna, 48h, >100 mg/l
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

Ingredients included on inventory of DSL (Canada), REACH, TSCA (USA)

SECTION 16 – OTHER INFORMATION

PRODUCT NAME: AR-2000 #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.