



**CHEMAX**  
CORPORATION

**MATERIAL SAFETY DATA SHEET**

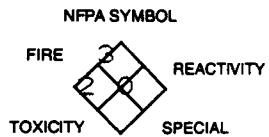
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MAY BE USED TO COMPLY WITH OSHA'S HAZARD COMMUNICATION STANDARD (HSC) 29 CFR 1910, 1200. STANDARD MUST BE CONSULTED FOR SPECIFIC REQUIREMENTS.

HMIS SYMBOL	
HEALTH	2
FLAMMABILITY	3
REACTIVITY	0

HMIS	NFPA
SEVERE 4	EXTREME
SERIOUS 3	HIGH
MODERATE 2	MODERATE
SLIGHT 1	SLIGHT
MINIMAL 0	INSIGNIFICANT



**PRODUCT IDENTIFICATION:**

A124 DE-ICER  
DATE: 01/02/03

**SECTION I: HAZARDOUS INGREDIENTS**

CAS NUMBER	CHEMICAL NAME	%	TLV (PPM)
67-63-0	ISOPROPYL ALCOHOL	90-95	400
57-55-6	OXYGENATED HYDROCARBON	5-10	N/D
124-38-9	CARBON DIOXIDE	3-5	1000

**SECTION II: PHYSICAL DATA**

BOILING POINT: 180 F  
 VAPOR PRESSURE: 85  
 VAPOR DENSITY: N/D  
 SOLUBILITY IN WATER: 100%  
 SPECIFIC GRAVITY: 0.804  
 PERCENT VOLATILE BY VOLUME: 100  
 EVAPORATION RATE: N/A  
 P H: N/A  
 APPEARANCE AND ODOR: WHITE WATER LIQUID & ALCOHOL ODOR

**SECTION III: FIRE AND EXPLOSION DATA**

FLASH POINT: 59 F T.O.C  
 FLAMMABLE LIMITS: N/A - EXTREMELY FLAMMABLE SPRAY  
 EXTINGUISHING MEDIA: FOAM, DRY CHEMICAL, CARBON DIOXIDE  
 SPECIAL FIREFIGHTING PROCEDURES:

KEEP CONTAINERS COOL. USE EQUIPMENT OR SHIELDING REQUIRED TO PROTECT PERSONNEL AGAINST BURSTING, RUPTURING, OR VENTING CONTAINERS.  
**UNUSUAL FIRE AND EXPLOSION HAZARDS:**  
 AT ELEVATED TEMPERATURES, ABOVE 120 F, CONTAINERS MAY VENT/RUPTURE/BURST.

SECTION IV: HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: N/A

EFFECTS OF OVEREXPOSURE: DIZZINESS, DROWSINESS, AND THROAT IRRITATION AT LEVELS ABOVE 1000 PPM; SKIN IRRITATION, DEFATTING & DERMATITIS; LOSS OF CONSCIOUSNESS; STOMACH CRAMPS; PAIN; NAUSEA; VOMITING; DIARRHEA

EMERGENCY FIRST AID PROCEDURES:

SKIN: WASH EXPOSED SKIN AREA WITH SOAP AND WATER

EYES: FLUSH w/WATER, LIFTING UPPER & LOWER LIDS. GET MEDICAL ATTENTION.

INGESTION: GIVE TWO GLASSES OF WATER AND INDUCE VOMITING.

GET MEDICAL ATTENTION IMMEDIATELY.

INHALATION: REMOVE TO FRESH AIR. IF BREATHING IS DIFFICULT, ADMINISTER OXYGEN. IF BREATHING STOPS GIVE ARTIFICIAL RESP. GET MEDICAL ATTENTION.

SECTION V: REACTIVITY DATA

STABILITY DATA: STABLE. AVOID HIGH TEMPERATURES.

INCOMPATIBILITY: ALKALI METALS, ALKALINE EARTH METALS, POWDERED ALUM., BARIUM

HAZARDOUS DECOMPOSITION PRODUCTS: CAN NOT OCCUR

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

SECTION VI: SPILL OR LEAK PROCEDURES

SMALL SPILLS: SOAK UP ON APPROPRIATE ABSORBENT MATERIAL

LARGE SPILLS: AEROSOL CANS, WHEN EMPTIED AND DEPRESSURIZED THROUGH NORMAL USE, POSE NO DISPOSAL HAZARD AND SHOULD BE RECYCLED.

AVOID BREATHING OF VAPORS AND ABSORPTION THROUGH SKIN.

FOLLOW STATE AND LOCAL REGULATIONS FOR DISPOSAL OF LARGE NON-RECLAIMABLE SPILLS.

SECTION VII: SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: PROTECTION DEPENDS ON VAPOR CONCENTRATION ABOVE TLV. USE A NIOSH APPROVED CARTRIDGE RESPIRATOR OR GAS MASK.

VENTILATION: LOCAL EXHAUST VENTILATION TO MAINTAIN EXPOSURE BELOW TLV(s)

PROTECTIVE GLOVES: VITON, PVC, AND PVA GLOVES MAY BE WORN

EYE PROTECTION: CHEMICAL SPLASH GOGGLES IN COMPLIANCE WITH OSHA REGULATIONS

OTHER PROTECTIVE EQUIPMENT: NONE

DO NOT EAT, DRINK, OR SMOKE IN THE WORK AREA.

WASH HANDS BEFORE EATING OR SMOKING. DO NOT USE IN CONFINED SPACES.

SECTION VIII: SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAMES. STORE ONLY AT TEMPERATURES BELOW 120 F.

OTHER PRECAUTIONS: READ & FOLLOW THE DIRECTIONS ON THE PRODUCT LABEL. THEY ARE YOUR BEST GUIDE TO USING THIS PRODUCT IN THE MOST EFFECTIVE MANNER, AND THEY ALSO GIVE YOU THE NECESSARY SAFETY PRECAUTIONS TO PROTECT YOUR HEALTH.