

# General Motors Corporation Material Safety Data Sheet

September, 1999

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## SECTION 01: CHEMICAL PRODUCT & COMPANY ID

TRADENAME: AC DELCO CHOKE CLEANER  
X21A  
12337814

MSDS SIGNED BY NAME: ANDREW B. WHITLOCK  
SAFE USE CATEGORY AND DESCRIPTION: 02 - SOLVENTS - FLASH POINT: < 100 F  
MSDS CREATE DATE: 1985-01-01  
LAST UPDATED DATE: 1989-06-30  
MANUFACTURER'S ID (MID): 000539666  
MANUFACTURER'S NAME: GUARDSMAN PRODUCTS INC  
MANUFACTURER'S EMERGENCY PHONE NUMBER/TEXT: US 616-924-3950  
MANUFACTURER'S MAILING ADDRESS:  
ALSO SEE GMBA #514360 & 556365  
411 N. DARLING  
FREMONT MI 49412  
US

## SECTION 02: COMPOSITION & INGREDIENT INFO

CAS#	FORMULATION	W/W	CHEMICAL NAME
000067630	R 5.0000/ 20.0000%	W	ISOPROPYL ALCOHOL
000078933	R 1.0000/ 15.0000%	W	2-BUTANONE
000108883	R 65.0000/ 80.0000%	W	TOLUENE
068476868	R 5.0000/ 20.0000%	W	Petroleum gases, liquefied, sweetened

THRESHOLD LIMIT VALUE: (ACGIH) 2-BUTANONE #78933: 200 PPM. ISOPROPYL ALCOHOL #67630: 400 PPM. TOLUENE #108883: 100 PPM. LIQUIFIED PETROLEUM PROPELLANT #68476868: 800 PPM.

PERMISSIBLE EXPOSURE LIMIT: (OSHA) 2-BUTANONE #78933: 200 PPM. ISOPROPYL ALCOHOL #67630: 400 PPM. TOLUENE #108883: 200 PPM. LIQUIFIED PETROLEUM PROPELLANT #68476868: 1000 PPM.

## SECTION 03: HAZARDS IDENTIFICATION

PRIMARY ENTRY ROUTE INDICATORS:  
SKIN PRIMARY ENTRY ROUTE INDICATOR = Y  
EYE PRIMARY ENTRY ROUTE INDICATOR = N  
INHALATION PRIMARY ENTRY ROUTE INDICATOR = Y  
INGESTION PRIMARY ENTRY ROUTE INDICATOR = N  
PRIMARY ROUTES OF ENTRY TEXT: ORAL; INHALATION; SKIN ABSORPTION.  
EFFECTS OF OVEREXPOSURE: HEADACHE, DIZZINESS, NAUSEA; SKIN AND EYE IRRITATION; MAY BE FATAL IF INGESTED. CHRONIC HAZARDS: REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OCCUPATIONAL OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN DAMAGE AND NERVOUS SYSTEM DAMAGE. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS MAY BE HARMFUL OR FATAL. AS A PRECAUTION, EXPOSURE TO LIQUIDS, VAPORS, MISTS OR FUMES SHOULD BE MINIMIZED.

## SECTION 04: FIRST AID MEASURES

EMERGENCY FIRST AID PROCEDURES - GENERAL: EYE CONTACT: FLUSH WITH RUNNING WATER FOR 15 MINUTES, HOLDING LID OPEN TO EXPOSE AS MUCH SURFACE AS POSSIBLE. CONTACT PHYSICIAN IMMEDIATELY. SKIN CONTACT: REMOVE CONTAMINATED CLOTHING AND SHOES. WASH EXPOSED AREA WITH MILD SOAP AND WATER, APPLY SKIN CREAM FOR IRRITATION. INHALATION: IF OVERCOME BY APOR, REMOVE TO FRESH AIR AT ONCE. APPLY ARTIFICIAL RESPIRATION IF NECESSARY, CONTACT PHYSICIAN IMMEDIATELY. INGESTION: DO NOT INDUCE VOMITING, CONTACT PHYSICIAN IMMEDIATELY.

## SECTION 05: FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: FOAM, DRY CHEMICAL, CO2.  
SPECIAL FIRE FIGHTING PROCEDURES: USE SELF CONTAINED BREATHING APPARATUS. WATER IS NOT SUITABLE AS AN EXTINGUISHING MEDIA, BUT MAY BE USEFUL FOR COOLING NEARBY CONTAINERS.  
UNUSUAL FIRE AND EXPLOSION HAZARDS: AEROSOL CONTAINERS MAY BURST WHEN EXPOSED TO TEMPERATURES IN EXCESS OF 120F. FLAME EXTENSION: 60 INCHES. FLASHBACK: YES. AUTOIGNITION TEMPERATURE: ND.  
FLASH POINT TEXT: EXTREMELY FLAMMABLE AEROSOL

## SECTION 06: ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK PROCEDURES: \*\*DANGER!! LEAKING AEROSOLS ARE AN EXTREME FIRE AND EXPLOSION HAZARD.\*\* REMOVE ALL POSSIBLE IGNITION

SOURCES, CHECK AREA WITH GAS DETECTOR. MOVE LEAKING CANS OUTDOORS AND EMPTY INTO SUITABLE CONTAINER BY DEPRESSING VALVE BUTTON. SMALL LIQUID SPILLS MAY BE TAKEN UP WITH ABSORBENT MATERIAL, SUCH AS EARTH OR FLOOR DRY.

## SECTION 07: HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: KEEP CONTAINERS CAPPED WHEN NOT IN USE. DO NOT STORE OR HANDLE NEAR HEAT, SPARKS, FLAME, OR STRONG OXIDIZERS. ALWAYS MAINTAIN ADEQUATE VENTILATION.

## SECTION 7 - OTHER INFORMATION:

AVOID BREATHING VAPORS OR MISTS; PROLONGED OR REPEATED SKIN CONTACT.

## SECTION 08: EXPOSURE CONTROLS - PROTECTION

EYE PROTECTION: FACE SHIELD OR SAFETY GLASSES RECOMMENDED.  
RESPIRATORY PROTECTION: USE SELF CONTAINED BREATHING APPARATUS OR EFFECTIVE NIOSH/MSHA APPROVED RESPIRATOR WHENEVER EXPOSURE LEVELS EXCEED ESTABLISHED STANDARDS.  
PERSONAL PROTECTIVE EQUIPMENT: NONE REQUIRED IN NORMAL USE.  
WORK/HYGIENIC PRACTICES: BASIC GOOD HOUSEKEEPING.

## SECTION 8 - OTHER INFORMATION:

NONE GENERALLY REQUIRED.  
PROTECTIVE GLOVES (SPECIFY TYPE): CHEMICAL RESISTANT.

## SECTION 09: PHYSICAL & CHEMICAL PROPERTIES

BOILING POINT TEMPS: 81.00C/ 178.00F  
BOILING POINT TEXT: 178F (INITIAL BOILING POINT)  
SPECIFIC GRAVITY VALUES: = 0.8500  
SPECIFIC GRAVITY TEXT: =0.85  
VAPOR DENSITY VALUES: > 1.0000  
VAPOR DENSITY TEXT: >1  
VAPOR PRESSURE TEXT: ND (ND=NOT DETERMINED)  
PERCENT VOLATILE BY VOLUME: 100.0000  
PERCENT VOLATILE BY VOLUME TEXT: 100  
SOLUBILITY IN WATER TEXT: SLIGHT. WATER REACTIVE: NO  
PH OF PRODUCT IN SOLUTION WITH WATER/TEXT: NA (NOT APPLICABLE)  
APPEARANCE: WATER WHITE WITH LACQUER THINNER ODOR

## SECTION 10: STABILITY & REACTIVITY

STABILITY INDICATOR: Y  
STABILITY - CONDITIONS TO AVOID: HEAT, SPARKS, OPEN FLAME.  
STABILITY - TEXT: YES  
INCOMPATIBLE MATERIALS: STRONG OXIDIZERS LIKE CHLORINE OR CONCENTRATED O2.  
HAZARDOUS DECOMPOSITION PRODUCTS: VARIOUS OXIDES OF CARBON.  
HAZARDOUS POLYMERIZATION INDICATOR: N  
HAZARDOUS POLYMERIZATION - CONDITIONS TO AVOID: NONE KNOWN.  
HAZARDOUS POLYMERIZATION TEXT: NO

## SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: COMPLY WITH ALL STATE, FEDERAL AND LOCAL REGULATIONS.

## SECTION 14: TRANSPORT INFORMATION

SHIPPING NAME: CONSUMER COMMODITY  
HAZARD CLASS: V:ORM - D CONSUMER COMMODITY

## SECTION 16: OTHER INFORMATION

LOCAL EXHAUST: ADEQUATE TO MAINTAIN LEVEL BELOW ESTABLISHED. RATE: >60 FPM.

SPECIAL PROTECTION (MECHANICAL): NO