



THE METRO GROUP, INC.

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Divisions:
Metropolitan Refining
Consolidated Water Conditioning
Cosmopolitan Chemical
Petro Con Chemical

MATERIAL SAFETY DATA SHEET

NFPA HAZARD RATING: HEALTH 3 ; FIRE 0 ; REACTIVITY 0 ; SPECIAL SCALE Corr. ; EXTREME 4 ; HIGH 3 ; MODERATE 2 ; SLIGHT 1 ; NONE 0

SECTION 1: PRODUCT NAME: METRO CLEANAWAY 221

DATE ISSUED: 8/9/93 EMERGENCY NUMBER: 1-800-424-9300 (CHEMTREC)

SECTION 2: HAZARDOUS INGREDIENTS

COMPONENTS	CAS NUMBER	OSHA PEL	% (OPTIONAL)
HYDROCHLORIC ACID	5 ppm/Air	Chlorine 5 ppm/Air	20

SECTION 313 SUPPLIER NOTIFICATION

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING

REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING & COMMUNITY RIGHT-TO-KNOW ACT
OF 1986 AND 40 CFR 372. CAS 7647-01-0 20%

SECTION 3: PHYSICAL DATA

COLOR:	RED	BOILING PT: °F	ABOVE 272°
ODOR:	SHARP ODOR	SPECIFIC GRAVITY:	1.15
MELTING POINT: °F	N/A	PHYSICAL STATE:	LIQUID
SOLUBILITY IN WATER:	COMPLETE	VAPOR PRESS. (mmHg)	32 @ 77°F
VAPOR DENSITY:	1.2	EVAP. RATE: (Water = 1)	1.0

SECTION 4: FIRE AND EXPLOSION DATA

FLASH POINT: Non-Flammable FLAMMABILITY LIMITS: LEL: N/A UEL: N/A
EXTINGUISHING MEDIA: N/A

SPECIAL FIRE FIGHTING PROCEDURES: Water spray or fog will absorb hydrogen chloride vapor
UNUSUAL FIRE OR EXPLOSION HAZARDS: Hydrogen chloride vapor is seriously irritating and hazardous.
Use full protective clothing plus plastic or rubber self contained breathing apparatus.

SECTION 5: REACTIVITY DATA

STABILITY: Stable

CONDITIONS TO AVOID: Corrosive - avoid contact with reactive metals. has a high vapor pressure-keep away from heat.

INCOMPATIBILITY: May react violently with alkalis and reactive salts plus metals.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Generates hydrogen chloride gas. Produces hydrogen with many metals. Can react violently under some conditions, a catalyzed reaction.

HAZARDOUS POLYMERIZATION:

CONDITIONS TO AVOID: None

SECTION 6: HEALTH HAZARD DATA

ROUTE OF ENTRY: **INHALATION?** Yes **SKIN?** Yes **INGESTION?** Yes

HEALTH HAZARDS (ACUTE AND CHRONIC): Inhalation of vapor produces irritation, cough, choking and if prolonged, inflammation of nose, throat & larynx. Contact with liquid causes irritation and burns of eyes and skin unless washed off promptly. Swallowing causes severe burns of mouth, esophagus and stomach, nausea, vomiting and thirst.

CARCINOGENICITY: **NTP?** N.L. **IARC Monographs?** N.L. **OSHA Regulated?** No
N.L. = Not Listed

SIGNS AND SYMPTOMS OF EXPOSURE: See above

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Not determined

EMERGENCY AND FIRST AID PROCEDURES: If inhaled, move to fresh air. If severe, give artificial respiration if needed and oxygen. In case of contact, flush eyes immediately with water for at least 15 minutes. Flush skin with water and remove contaminated clothing. If swallowed, give copious amounts of milk of magnesia and water (if conscious). Call a physician.

SECTION 7: PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Flush area with water, neutralize washings with lime or soda ash.

WASTE DISPOSAL METHOD: Neutralize with alkaline material such as lime before sewerage, or pass through neutralizing limestone bed.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Store in a cool dry place well ventilated

OTHER PRECAUTIONS: None

SECTION 8: CONTROL MEASURES

RESPIRATORY PROTECTION (SPECIFY TYPE): If concentration exceeds TLV, use airline respirator, Bureau of Mines approved cartridge respirator (chlorine, acid) may be used for short, light exposure.

VENTILATION:

LOCAL EXHAUST: Required for open handling

SPECIAL: Absorb and neutralize

MECHANICAL (GENERAL): Acceptable for closed or small system to 5 ppm.

OTHER: Exhaust has noticeable irritating odor.

PROTECTIVE GLOVES: Rubber gloves to avoid skin contact

EYE PROTECTION: Splash proof goggles or face shield.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Rubber clothing and boots for splash hazard. Safety shower, eyewash

WORK/HYGIENIC PRACTICES: Wash hands after use