



SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION

PRODUCT IDENTIFIER:

GMP Solutions Step 1 Cleaner

SUPPLIER:

Eteros Technologies, #600-6175 South Sandhill Road, Las Vegas, NV, 89120 - TEL: 1-866-874-6244

RECOMMENDED USE:

Butyl based biodegradable cleaner and degreaser.

SECTION 2 - CLASSIFICATION

WHMIS Information: This product is a WHMIS Hazardous product. This product falls into the following classifications:

SKIN CORROSION: CATEGORY 1 - H314

SERIOUS EYE DAMAGE: CATEGORY 1 - H318



GHS LABEL ELEMENTS:

SIGNAL WORD: Danger Hazard statement(s):
H314 - Causes severe skin burns and eye damage.

PRECAUTIONARY STATEMENT(S)	DESCRIPTION
P260	Do not breathe dusts or mists (if inhalable particles of dusts or mists may occur during use).
P264	Wash hands thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P363	Wash contaminated clothing before reuse.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

EMERGENCY OVERVIEW:

Clear blue liquid. Corrosive to skin and eyes. Ingestion may lead to severe burning in mouth and damage to esophagus and stomach lining.

CARCINOGENIC STATUS:

Not known to be carcinogenic. See TOXICOLOGICAL INFORMATION, section 11.

ADDITIONAL HEALTH HAZARDS:

See TOXICOLOGICAL INFORMATION, section 11.

POTENTIAL ENVIRONMENTAL EFFECTS:

See ECOLOGICAL INFORMATION, section 12.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	CAS	Function
Water	7732-18-5	Solvent
Silicic Acid, Disodium Salt	6834-92-0	Buffer
2-Butoxyethanol	111-76-2	Solvent
Proprietary Surfactant Blend	N/A	Surfactant
Trisodium Citrate Dihydrate	6132-04-3	Builder
Proprietary Cationic/Nonionic Blend	N/A	Surfactant
Proprietary Surfactant	N/A	Surfactant/Emulsifier
1, 3-Di(Hydroxymethyl)-5, 5-Dimethylhydantoin	6440-58-0	Preservative
Tetrasodium EDTA	64-02-8	Chelant
Dye	N/A	Colorant
acetic acid 2-butoxyethyl ester	111 - 76 - 2	1-5%
Disodium metasilicate pentahydrate	10213 - 79 - 3	1-5%

SECTION 4 - FIRST AID MEASURES

INHALATION:

Immediately remove person to fresh air and keep at rest in a comfortable breathing position. If breathing stops, administer artificial respiration. Seek immediate medical attention.

SKIN CONTACT:

Immediately remove all contaminated clothing. Rinse skin thoroughly with soap and water for at least 15 minutes. Seek immediate medical attention.

EYE CONTACT:

Rinse eyes thoroughly with water for at least 15 minutes and seek immediate medical attention. Remove contact lenses if possible.

INGESTION:

Do NOT induce vomiting. Rinse mouth if person conscious. Do not give anything by mouth to an unconscious person. Seek immediate medical attention.

SECTION 5 - FIRE FIGHTER MEASURES

FLAMMABILITY:

Non-flammable.

RECOMMENDED MEANS OF EXTINCTION:

As for surrounding materials.

SPECIAL PROCEDURES:

None.

HAZARDOUS COMBUSTION PRODUCTS:

Carbon dioxide, Carbon monoxide, Nitrous oxide.

OXIDIZING PROPERTIES:

None.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:

All personnel dealing with accidental release should take necessary precautions as outlined in EXPOSURE CONTROLS AND PERSONAL PROTECTION, Section 8.

SPILL RESPONSE:

Dike area and contain spill. Pump to container for recovery or disposal. Neutralize remainder with mild acid and pickup with wet vacuum.

SECTION 7 - HANDLING & STORAGE

SAFE HANDLING PROCEDURES:

Avoid contact with eyes, skin and clothing. Provide proper ventilation where vapours may form. Wash hands thoroughly after handling.

SAFE STORAGE PROCEDURES:

Store in a cool dry area. Keep from freezing.

SECTION 8 - EXPOSURE CONTROLS & PERSONAL PROTECTION

INGREDIENT	Time-Weighted Average Limit (TWA)	Short-Term Exposure Limit (STEL)
acetic acid 2-butoxyethyl ester	20 ppm	-

ENGINEERING CONTROLS:

Local exhaust should be used. Ensure work area is well-ventilated.

PERSONAL PROTECTIVE EQUIPMENT (PPE):

SKIN:

Gloves made of rubber or vinyl should be used. Prior to use, user should confirm impermeability. Discard contaminated gloves. Wash and dry hands after use

EYES:

Safety goggles or face shield should be used. Ensure equipment is properly fitted for the user. Equipment should be tested and approved under government standards. Contact lenses should not be worn when working with this material.

RESPIRATORY:

If risk of respiratory exposure exists, use full-face particle respirator. Ensure respirator is approved under government standards.

OTHER:

Impermeable footwear and clothing should be used. A complete suit protecting against chemicals may be required.

SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES

PHYSICAL STATE:	Liquid.	VAPOUR PRESSURE:	No data available.
APPEARANCE:	Blue.	VAPOUR DENSITY:	No data available.
ODOUR:	Butyl.	SPECIFIC GRAVITY:	1.07
ODOUR THRESHOLD:	No data available.	SOLUBILITY:	Complete.
PH LEVEL:	13*	PARTITION COEFFICIENT:	No data available.
FREEZING POINT:	No data available.	AUTO IGNITION TEMP:	No data available.
BOILING POINT:	No data available.	DECOMPOSITION TEMP:	No data available.
FLASH POINT:	No data available.	VISCOSITY:	No data available.
FLAMMABILITY:	No applicable.	EVAPORATION RATE:	No data available.
FLAMMABILITY LIMITS:	No applicable.		

* Product formulation includes a buffering agent that enables it to behave towards target material surfaces as a neutral solution.

SECTION 10 - STABILITY & REACTIVITY

CHEMICAL STABILITY:

Normally stable. See STORAGE AND HANDLING, Section 7.

HAZARDOUS REACTIONS:

May decompose to carbon dioxide, carbon monoxide or nitrous oxides.

CONDITIONS TO AVOID:

Extreme heat and cold.

INCOMPATIBLE MATERIALS:

Strong acids, Strong oxidizers.

SECTION 11 - TOXICOLOGICAL PROPERTIES

INGREDIENT	LD50 (Oral)	LD50 (Dermal)	LD50 (Inhalation)
acetic acid 2-butoxyethyl ester	880 (rat)	1060 (rat)	No data
Disodium metasilicate pentahydrate	847 (rat)	No data	No data

EFFECTS OF ACUTE EXPOSURE:

May cause severe skin burns and eye damage. May cause respiratory irritation. May cause severe burning in mouth, throat and abdomen upon ingestion.

EFFECTS OF CHRONIC EXPOSURE:

Long term exposure may cause damage to eyes, and serious rash and irritation to skin.

IRRITANT:

Corrosive to skin and eyes

SENSITIZATION TO MATERIAL:

No known evidence of sensitization

CARCINOGENICITY:

No known evidence of carcinogenicity.

GERM CELL MUTAGENICITY:

No known evidence of mutagenicity.

REPRODUCTIVE EFFECTS:

No known reproductive effects.

TARGET ORGAN EFFECTS (SINGLE EXPOSURE):

No data available.

TARGET ORGAN EFFECTS (REPEATED EXPOSURE):

No data available.

EFFECTS OF CHRONIC EXPOSURE:

Long term exposure may cause damage to eyes, and serious rash and irritation to skin.

ASPIRATION HAZARD:

No data available.

SIGNS AND SYMPTOMS OF EXPOSURE:

SKIN/EYES:

Severe burns to skin and permanent damage to eyes may result.

INHALATION:

Irritation of respiratory tract and mucous membranes, potentially leading to serious damage to tract and lungs.

INGESTION:

Severe burning in the mouth, throat and abdomen. Vomiting, diarrhea and damage to gastrointestinal system may result.

TOXICOLOGICAL DATA:

No whole formulation data available.

ESTIMATED ATE:

>5,000 mg/kg (Oral), >10,000 mg/kg (Dermal).

SYNERGISTIC MATERIALS:

No data available.

OTHER IMPORTANT HAZARDS:

None known.

SECTION 12 - ECOLOGICAL INFORMATION

ECOTOXICITY:

No data available.

BIODEGRADEABILITY:

2-BUTOXYETHANOL

Biodegradability aerobic - Exposure time 28 d Result: 90.4 % - Readily biodegradable. (OECD Test Guideline 301B)

DISODIUM METASILICATE PENTAHYDRATE

The methods for determining biodegradability are not applicable to inorganic substances.

MOBILITY IN SOIL:

No data available.

OTHER ADVERSE EFFECTS:

No data available.

SECTION 13 - DISPOSAL CONSIDERATIONS

HANDLING FOR DISPOSAL:

According to precautions outlined in HANDLING AND STORAGE, Section 7 and EXPOSURE CONTROLS and PERSONAL PROTECTION, Section 8.

METHODS OF DISPOSAL:

Follow all applicable federal, state/provincial and municipal regulations. For specific information, contact your federal, state/provincial or local environmental agency.

SECTION 14 - TRANSPORT INFORMATION

	UN number/ Numéro ONU	UN PROPER SHIPPING NAME	Transport hazard class(es)	Packing group	Environmental hazards
TDG	Not classified	Not classified	Not classified	Not classified	No

ADDITIONAL PRECAUTIONS:

No special precautions required, normal care should apply.

SECTION 15 - REGULATORY INFORMATION

WHMIS 2015:

Refer to HAZARDS IDENTIFICATION, Section 2.

SECTION 16 - OTHER INFORMATION

ABBREVIATIONS AND ACRONYMS:

IMDG International Maritime Code for Dangerous Goods

DOT US Department of Transportation

IATA International Air Transport Association

CAS Chemical Abstracts Service (division of the American Chemical Society)

LD Lethal Dose

WHMIS Workplace Hazardous Materials Identification System

NFPA National Fire Protection Association (USA)

VOC Volatile Organic Compounds (USA, EU)

LC50 Lethal concentration, 50 percent

LD50 Lethal dose, 50 percent

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CONTACT:

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