

SAFETY DATA SHEET

Product Name : MetalWash

Date Issued January 1, 2023

SECTION 1 : PRODUCT AND COMPANY IDENTIFICATION

Product Name: E205 MetalWash

Chemical Synonym / C# : c242

Formula : Multi-component mixture

Chemical Family: Mild alkali

Supplier : Atlantic Specialty Chemical Co. 317 Godwin Ave. Midland Park, NJ 07432

Information Telephone : (201)251-2711 or **Emergency Telephone :** (855) 347-8203

SECTION 2 : HAZARD IDENTIFICATION

Form : Liquid **Color :** Clear, colorless

Emergency Overview : Solutions are eye and skin irritants, and prolonged or repeated contact may cause irritation. Mists are irritating to the skin, mucous membranes, and upper respiratory tract. Read the entire SDS for a more thorough evaluation of the hazards.

OSHA Hazard Communication Standard : This product has been evaluated and classified as defined by OSHA Hazard Communication Standard, 29CFR 1910.1200.

GHS Classification :

Eye Irritation (Category 2A Irritant)

Skin Irritation (Category 2 Irritant)

Label Elements :

Signal Word : Warning



GHS Hazard Pictograms :

Exclamation Mark

Hazard Statements :

H303 May be harmful if swallowed

H315 Causes skin irritation

H319 Causes serious eye irritation

H335 May cause respiratory irritation

Precautionary Statements :

P102 Keep out of reach of children.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P281 Use personal protective equipment as required.

P301+ 312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P304 + 312 IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 IF eye irritation persists: Get medical advice/attention.

P302 + 351 IF ON SKIN Rinse cautiously with water for several minutes.

P333 + P313 IF SKIN irritation or rash occurs: Get medical advice/attention.

Other hazards which do not result in classification :

None known. See Section 11 for Potential Health Hazards

SAFETY DATA SHEET

Product Name : MetalWash

Date Issued : January 1, 2023

SECTION 3 : COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredient(s)	CAS #	% (w/w)
Triethanolamine	102-71-6	1 - 5
Sodium Tripolyphosphate	7758-29-4	1 - 5
Diethylene glycol n-butyl ether	112-34-5	5 - 10
Propylene Glycol	57-55-6	1 - 5

Unlisted components are considered non-hazardous as per 29CFR1910.1200g2C. See section 15 for specific state right-to-know information if applicable.

SECTION 4 : FIRST AID MEASURES

Eye Contact: Immediately flush contacted area repeatedly with water for at least 15 minutes, holding eyelids open. Contact a physician for treatment.

Skin Contact: Immediately flush contacted area repeatedly with water for at least 15 minutes. If irritation persists, contact a physician for treatment. Clean contaminated clothing before reuse.

Inhalation: Inhalation is not an expected route of exposure. If respiratory irritation or distress occurs, remove victim to fresh air. If irritation persists, seek medical attention.

Ingestion: Never give anything by mouth to an unconscious person. If swallowed, do not induce vomiting. Give 1-2 glasses of water to drink, if conscious and alert.

Notes to physician : treat symptomatically. No specific antidote available. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

SECTION 5 : FIRE FIGHTING MEASURES

Extinguishing Media: None required.

Fire Fighting Procedures: Use caution when fighting any fire. Adequate respiratory protection is essential.

Unusual Fire and Explosion Hazards: None known.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

Personal precautions : Use suitable protective equipment (See Section 8 : "Exposure controls / personal protection").

Steps to be taken in case material is released or spilled:

Small Spill: Absorb with suitable absorbent such as sand or vermiculite.

Large Spill: Stop leak at source and contain spill with dike made of inert material such as sand or diatomaceous earth. Pump material to suitable container for possible reuse.

Solid spill: Sweep up and return to container.

SAFETY DATA SHEET

Product Name : MetalWash

Date Issued : January 1, 2023

SECTION 7 : HANDLING AND STORAGE

Handling: Avoid breathing vapors and mists. Avoid direct or prolonged contact with skin and eyes. In cold weather, liquids may stratify and freeze. This does not damage the product. If freezing occurs, thaw and remix before using. Frozen material may be thawed in a warm room. Avoid localized overheating. Vent drums while heating. Mix thoroughly to assure homogeneity. Handle with care. Wash thoroughly after handling.

Storage Requirements: Keep container closed. Store in an area that is dry and well-ventilated, away from incompatible materials (see section 10). For Industrial and commercial use only!

SECTION 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION

Hazardous Ingredient	ACGIH TLV (mg/m3) TWA	ACGIH TLV (mg/m3) STEL
Triethanolamine	5	-
Sodium Tripolyphosphate	-	-
Diethylene glycol n-butyl ether	-	-
Propylene Glycol	-	-

Engineering measures :

Ventilation / Local Exhaust : General room ventilation.

Ventilation / Mechanical Recommendations: None required.

Personal protective equipment :

Respiratory Protection: Not required for properly ventilated areas.

Skin Protection: Vinyl or rubber protective gloves.

Eye Protection: Goggles or face shield.

Other Protective Equipment: Vinyl apron (optional).

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

Appearance / Odor: Clear, green liquid, odor mild solvent.

Water Solubility: complete

Specific Gravity: 1.04

Evaporation Rate(water=1): N/A

Vapor Density(air=1) : N/A

Flash Point : None

Flammable Limits: LEL = N/A UEL = N/A

pH (1%): 9 - 10

Boiling Point (°F) : 212+

% Volatile: N/A

Vapor Pressure(mmHg): N/A

Flash Point Method Used: N/A

SAFETY DATA SHEET

Product Name : MetalWash

Date Issued January 1, 2023

SECTION 10 : STABILITY AND REACTIVITY

Hazardous Decomposition Products: None.

Chemical Stability: Stable.

Conditions to Avoid: Avoid contact with hot solutions, splashing solutions, prolonged skin contact.

Incompatibility with other Substances: Acids, oxidizers

Hazardous Polymerization: Will not occur.

SECTION 11 : TOXICOLOGICAL INFORMATION

Potential Health Hazards (as mild alkaline or detergent blend) :

Inhalation: Inhalation of mists or dusts may cause irritation to respiratory tract. Symptoms from excessive inhalation or of concentrated product may include gasping or coughing and difficulty breathing. Excessive contact may cause damage to the nasal septum.

Skin Contact: May cause mild irritation. Concentrated or prolonged contact may cause irritation with redness and blistering.

Eye Contact: May cause mild irritation. Concentrated or prolonged contact may cause conjunctival edema and corneal destruction.

Ingestion: Swallowing may produce gastrointestinal upset. Symptoms from ingestion of large doses may include severe abdominal pain, vomiting, and diarrhea.

Toxicological Data: Toxicological studies were not performed on the blended product, although it is considered to be a severe eye irritant, and moderately irritating to the skin.

Toxicological Data (as Triethanolamine): None found.

Toxicological Data (as Sodium Tripolyphosphate) :

Acute Dermal LD50 : Not available

Oral LD50 (rat) = 4100 mg/kg

Inhalation LC50 : Not available

Toxicological Data (as Diethylene glycol n-butyl ether) :

Skin : LD50 (rabbits) = 4000 mg/kg

Ingestion : oral LD50 (rats) = 5660 mg/kg

Toxicological Data (as Propylene Glycol):

Skin : LD50 (rabbits) = > 10,000 mg/kg

Ingestion : oral LD50 (rats) = 20,000 - 34,000 mg/kg

Carcinogenicity: This product does not contain any materials considered to be carcinogenous according to OSHA, NTP, IARC, or ACGIH.

SECTION 12 : ECOLOGICAL INFORMATION

Exotoxicological Information: No data found for the blended product.

Exotoxicological Information (as Triethanolamine): None found.

Ecological Information (as Sodium Tripolyphosphate) : No data.

SAFETY DATA SHEET

Product Name : MetalWash

Date Issued : January 1, 2023

Exotoxicological Information (as Diethylene glycol n-butyl ether) :

Movement & Partitioning : Bioconcentration potential is low ($BCF < 100$ or $\text{Log Pow} < 3$). Log octanol/water partition coefficient (log Pow) is 0.56. Potential for mobility in soil is high (K_{oc} between 50 and 150). Log soil organic carbon partition coefficient ($\text{log } K_{oc}$) is estimated to be $1.52E-9$ atm.m³/mol.

Degradation & Persistence : Biodegradation under aerobic static laboratory conditions is high (BOD_{20} or BOD_{28}/ThOD greater than 40%). Degradation is expected in the atmospheric environment within minutes to hours. Biochemical oxygen demand : 5 day = 0.05 p/p; 10 day = 0.39 p/p; 20 day = 1.08 p/p. ThOD (theoretical Oxygen Demand) is calculated to be 2.17 p/p. Biodegradation rate may increase in soil and/or water with acclimation.

Ecotoxicity : Material is practically non-toxic to aquatic organisms on an acute basis ($LC_{50} > 100$ mg/l in most sensitive species).

Environmental Fate (as Propylene Glycol) :

Movement and Partitioning : Bioconcentration potential is low ($BCF < 100$ or $\text{Log Pow} < 3$). Log octanol/water partition coefficient (log Pow) = -0.92. Henry's Law Constant (H) = $1.2E-8$ atm. m³/mole.

Degradation and Persistence : Biodegradation under aerobic static laboratory conditions is high (BOD_{20} or $BOD_{28}/\text{ThOD} > 40\%$). Biodegradation is expected to be achievable in a secondary wastewater treatment plant. 5-day biochemical oxygen demand (BOD_{20}) = 1.16 p/p. 20-day biochemical oxygen demand (BOD_{20}) = 1.45 p/p. Theoretical oxygen demand (ThOD) is calculated to be 1.68 p/p. Inhibitory concentration (IC_{50}) in OCED Activated Sludge Respiration Inhibition Test (OCED Test No. 209) > 1gm/L. Degradation is expected in the atmospheric environment within minutes to hours.

Ecotoxicity : Material is practically non-toxic to aquatic organisms on an acute basis ($LC_{50} > 100$ mg/L in most sensitive species):

Acute LC_{50} (fathead minnow) = 46500 - 54900 mg/L.

Acute LC_{50} (guppy) = > 10000 mg/L

Acute LC_{50} (water flea) = 4850 - 34400 mg/L

Acute LC_{50} (rainbow trout) = 44 mg/L

SECTION 13 : DISPOSAL CONSIDERATIONS

Waste Disposal Method: Recycle, recovery and reuse of materials, where permitted, is encouraged as an alternate to disposal as a waste. Hazardous waste classification under federal regulations (40 CFR Part 261 et seq) is dependent upon whether a material is a RCRA listed hazardous waste or has any of the four RCRA hazardous waste characteristics. Refer to 40 CFR Part 261.33 to determine if a given material to be disposed of is a RCRA listed hazardous waste. RCRA Hazardous Waste Characteristics: There are four characteristics defined in 40 CFR Section 261.21-61.24: *Ignitability, Corrosivity, Reactivity, and Toxicity*. To determine Ignitability, see Section 9 of this SDS (flash point). For Corrosivity, see Sections 9 and 14 (pH and DOT corrosivity). For Reactivity, see Section 10 (incompatible materials). For Toxicity, see Section 2 (composition). Federal regulations are subject to change. State and local requirements, which may differ from or be more stringent than the federal regulations, may also apply to the classification of the material if it is to be disposed.

Is the unused product a RCRA hazardous waste (40CFR261.33) if discarded? No

If yes, the RCRA ID number is : N/A

SAFETY DATA SHEET

Product Name : MetalWash

Date Issued January 1, 2023

SECTION 14 : TRANSPORTATION INFORMATION

Transportation Emergency Telephone Number: 3E 24 hour number : (855) 347-8203

UN Number / DOT Proper Shipping Name / DOT Hazard Class /Packing Group / DOT Label & other information: NOT REGULATED BY DOT (mildly alkaline cleaning liquid NOIBN)

SECTION 15 : REGULATORY INFORMATION

US FEDERAL REGULATIONS :

TSCA (Toxic Substances Control Act) Status : TSCA (United States) The intentional ingredients of this product are listed.

CERCLA RQ - 40CFR302.4(a) : none listed

SARA 302 Components - 40 CFR 355 Appendix A : none

SARA 311/312 Classification - 40 CFR 370.2 : meets the following categories :

Acute, chronic : (as Triethanolamine)

Immediate health hazard, delayed health hazard : (as Diethylene glycol n-butyl ether)

SARA 313 Components - 40 CFR 372.65:

Section 313 Component(s)

Glycol Ether

CAS #

None

%

5 - 10

INTERNATIONAL REGULATIONS :

Triethanolamine is listed on the following inventories :

Canadian Domestic Substance List (DSL), European Inventory of Existing Chemical Substances (EINECS), European List of Notified Chemical Substances (ELINCS), Australian Inventory of Chemical Substances (AICS), Japan Ministry of International Trade and Industry (MITI) inventory. (Canada) WHMIS Information : the classification for Triethanolamine is : Class D, Div 2, Subdiv B : Irritant

SAFETY DATA SHEET

Product Name : MetalWash

Date Issued : January 1, 2023

STATE REGULATIONS :

California Safe Drinking Water Act (Prop. 65) Listing : None listed.

Other Regulations / Legislation which apply to this product:

(as Ethanol 2,2',2"-nitrioltris- Common name, Triethanolamine) : State Right-to-Know : FL, MA, PA, RI

(as Sodium Tripolyphosphate) : Massachusetts Substance List, New Jersey Right to Know Hazardous Substance List, Pennsylvania Hazardous Substance List

(as glycol ethers) : Pennsylvania (Worker & Community Right To know Act), Pennsylvania Hazardous Substances List and/or Pennsylvania Environmental Hazardous Substance List.

(as Propylene Glycol) : Pennsylvania Hazardous Substance

SECTION 16 : OTHER INFORMATION

NFPA Rating : HEALTH: 2 FLAMMABILITY: 0 REACTIVITY: 0

NFPA hazard degree designation 704: 4 = extreme, 3 = high, 2 = moderate, 1 = slight, 0 = none.

Revision Date : 1/1/2023

Information and data compiled to compose this SDS is correct to the best of our knowledge as of the printed date, and is offered solely for your consideration, investigation, and verification.