

SAFETY DATA SHEET

Product Name : Basic 122P

Date Issued : April 12, 2024

SECTION 1 : PRODUCT AND COMPANY IDENTIFICATION

Product Name: Basic 122P

Chemical Synonym / C# : c122

Formula : Multi-component mixture

Chemical Family: Alkaline detergent

Supplier : Americhem International, 412 East 6th Avenue, Altoona, Pa. 16602

Information Telephone : 800-262-4360

Emergency Telephone : 607-529-3218

SECTION 2 : HAZARD IDENTIFICATION

Form : Powder **Color :** White

Emergency Overview : Solutions and powders are severe eye irritants, and prolonged or repeated contact may cause skin irritation. Dusts and 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 is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

GHS Classification :

Corrosive to metals (Category 1)

Skin corrosion (Category 1B)

Serious eye damage (Category 1)

Specific target organ toxicity - single exposure (Category 3), Respiratory system

Signal Word : Danger



Corrosion,



Exclamation Mark

GHS Hazard Pictograms :

Hazard Statements :

H290: May be corrosive to metals.

H314: Causes severe skin burns and eye damage.

H318: Causes serious eye damage.

H335: May cause respiratory irritation.

Precautionary Statements :

P261: Avoid breathing dust.

P262: Do not get in eyes, on skin, or on clothing.

P264 Wash skin 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): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position 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 or doctor/ physician.

P321 Specific treatment (see supplemental first aid instructions on this label).

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Precautionary Statements, *continued* :

P363 Wash contaminated clothing before reuse.

P390 Absorb spillage to prevent material damage.

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P406 Store in corrosive resistant stainless steel container with a resistant inner liner.

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification :

None known. See Section 11 for Potential Health Hazards

SECTION 3 : COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredient(s)	CAS #	% (w/w)
Sodium Metasilicate	6834-92-0	40 - 50
Sodium Carbonate	497-19-8	30 - 50
Sodium Tripoly Phosphate	7758-29-4	1 - 10

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: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

Inhalation: Move 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 large quantities of water or milk, then drink dilute vinegar, lemon juice, orange juice, or soda if conscious. Consult a physician.

SECTION 5 : FIRE FIGHTING MEASURES

Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Fire Fighting Procedures: Wear self contained breathing apparatus for fire fighting if necessary.

Unusual Fire and Explosion Hazards: Not applicable. Inorganic powder or granules. Non-combustible.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

Personal & environmental precautions : Wear suitable protective clothing. Wear eye/face protection. An approved dust mask should be worn if dust is generated during handling. Do not allow to enter drains, sewers or watercourses. Advise authorities if spillage has entered water course or sewer or has contaminated soil or vegetation.

Steps to be taken in case material is released or spilled: Caution - spillages may be slippery. Avoid generation of dust. Sweep or preferably vacuum up and collect in suitable containers for recovery or disposal.

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SECTION 7 : HANDLING AND STORAGE

Handling: Avoid contact with eyes, skin and clothing. Avoid generation of dust. Emergency shower and eye wash facilities should be readily available.

Storage Requirements: Keep container tightly closed and dry. In case of high humidity or storage for extended periods of time, use plastic bags to enclose product containers to avoid caking. Unsuitable containers: Aluminium

SECTION 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION

Hazardous Ingredient	ACGIH TLV (mg/m3) TWA	ACGIH TLV (mg/m3) STEL
Sodium Metasilicate	-	-
Sodium Carbonate	-	-
Sodium Tripolyphosphate	-	-

Engineering measures :

Ventilation / Local Exhaust / Mechanical Recommendations: Engineering methods to prevent or control exposure are preferred. Methods include process or personnel enclosure, mechanical ventilation (dilution and local exhaust), and control of process conditions.

Personal protective equipment :

Respiratory Protection: Avoid inhalation of dusts. Wear suitable respiratory protective equipment if working in confined spaces with inadequate ventilation or where there is any risk of the exposure limits being exceeded.

Skin Protection: Wear suitable protective clothing and gloves. PVC or rubber gloves. Wear suitable overalls.

Eye Protection: Chemical goggles.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

Appearance / Odor: White granular powder, odor nil.

Water Solubility: Complete

Specific Gravity: N/A

Evaporation Rate(water=1): N/A

Vapor Density(air=1) : N/A

Flash Point : N/A

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

pH (1%): > 10

Boiling Point (°F) : N/A

% Volatile: N/A

Vapor Pressure(mmHg): N/A

Flash Point Method Used: N/A

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SECTION 10 : STABILITY AND REACTIVITY

Hazardous Decomposition Products:

Chemical Stability: This product is hygroscopic.

Conditions to Avoid: When arc welding vessels containing aqueous solutions of this material, take care to control any explosion risk from hydrogen evolved by electrolysis. Aqueous solutions will react with aluminum, zinc, tin and their alloys evolving hydrogen gas which can form an explosive mixture with air. Can react violently if in contact with acids. Can react with sugar residues to form carbon monoxide.

Incompatibility with other Substances: Strong acids, Lead, Tin/tin oxides, Zinc, Aluminium

Hazardous Polymerization: Will not occur.

SECTION 11 : TOXICOLOGICAL INFORMATION

Potential Health Effects (as Sodium Metasilicate): Acute: May cause severe irritation to the eyes.

Dusts and mists are irritating to the skin, mucous membranes, and upper respiratory tract.

Chronic: May cause irritation of the skin, respiratory airways, mucous membranes and eyes.

Toxicological Data (as Sodium Metasilicate):

Acute toxicity

Ingestion Material will cause chemical burns. All symptoms of acute toxicity are due to high alkalinity.

Oral LD50 (rat) 1152-1349 mg/kg bw

Inhalation Dust is severely irritant to the respiratory tract. All symptoms of acute toxicity are due to high alkalinity.

Inhalation LC50 (rat) >2.06 g/m³

Skin Contact Material will cause chemical burns.

Dermal LD50 (rat) >5000 mg/kg bw

Eye Contact Material will cause chemical burns. May cause permanent damage if eye is not immediately irrigated.

Skin corrosion/irritation: Corrosive to: Skin.

Serious eye damage/irritation: Corrosive to: Eyes.

Sensitisation : Not sensitising. (LLNA)

Mutagenicity : No evidence of genotoxicity. In vitro/in vivo negative.

Carcinogenicity : Components are not listed by IARC, NTP or OSHA as carcinogens.

Reproductive toxicity : No evidence of reproductive toxicity or developmental toxicity.

STOT - single exposure Irritating to respiratory system.

STOT - repeated exposure Not classified. NOAEL oral (rat) 227 mg/kg bw/d

Aspiration hazard : Not classified

Other information: Not applicable.

Toxicological Data (as Sodium Carbonate):

Acute Toxicity/Effects

Oral LD50 rat = 4090 mg/kg

Dermal LD50 = no data

Inhalation LC50 rat = 2.3 ml/l

Inhalation LC50 20 hr guinea pig = 800 mg/m³ moderate toxicity

Skin corrosion/irritation : Mild irritant (500 mg/24hr, rabbit). Minor irritation may occur on abraded skin.

Not a sensitizer (tested at 0.25% solution).

Serious eye damage/eye irritation : Severe irritant (50 mg, rabbit).

Respiratory sensitization : Not determined, exemption according to REACH

Skin sensitization : Not determined, exemption according to REACH

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Toxicological Data (as Sodium Carbonate) *continued* :

Germ cell mutagenicity :

invitro : Escherichia coli = negative (experimental value, other method)

Bacteria (S.typhimurium) = ambiguous (read-across value, OECD 471 method)

invivo : No data available

Carcinogenicity: Not designated by IARC, NTP, ACGIH or OSHA as probable or suspected human carcinogens.

Reproductive toxicity :

Developmental toxicity (rat) : ≥ 245 mg/kg no effect (NOAEL parameter, other method, experimental value)

Effects on fertility : Not classified for carcinogenicity. Not classified for mutagenic or genotoxic toxicity. Not classified for reprotoxic or developmental toxicity

Specific target organ toxicity - single exposure : No relevant data available. Supplementary classification for repeated dose toxicity was not considered necessary.

Specific target organ toxicity - repeated exposure : no data

Aspiration hazard : no data

Chronic effects : Excessive, long term contact may produce "soda ulcers" on hands and perforation of the nasal septum. Sensitivity reactions may occur from prolonged and repeated exposure.

Toxicological Data (as Sodium Tripolyphosphate) :

Acute Toxicity/Effects

Irritation: skn-rbt 500 mg/24H MOD;

Multi-dose Toxicity: orl-rat TDLo:2730 mg/kg/13W-I

Acute Toxicity - Dermal - Classification criteria not met; Acute Toxicity - Inhalation - Data lacking; Acute Toxicity - Oral - Classification criteria not met

Skin corrosion/irritation : OSHA HCS 2012 • Skin Irritation 2

Serious eye damage/eye irritation :

Respiratory sensitization : OSHA HCS 2012 • Data lacking

Skin sensitization : OSHA HCS 2012 • Data lacking

Germ cell mutagenicity : OSHA HCS 2012 • Data lacking

Carcinogenicity: OSHA HCS 2012 • Not relevant

Reproductive toxicity : OSHA HCS 2012 • Data lacking

Specific target organ toxicity - single exposure : OSHA HCS 2012 • Data lacking

Specific target organ toxicity - repeated exposure : OSHA HCS 2012 • Data lacking

Aspiration hazard : OSHA HCS 2012 • Not relevant

Chronic effects : No data available.

SECTION 12 : ECOLOGICAL INFORMATION

Ecotoxicological Information (as Sodium Metasilicate):

Fish (Brachydanio rerio) LC50 (96 hour) 210 mg/l

Aquatic invertebrates: (Daphnia magna) EC50 (48 hour) 1700mg/l

Environmental Effects:

Persistence and Degradation: Inorganic. Soluble silicates, upon dilution, rapidly depolymerise into molecular species indistinguishable from natural dissolved silica.

Bioaccumulative potential : Inorganic. The substance has no potential for bioaccumulation.

Mobility in soil : Not applicable.

Results of PBT and vPvB assessment : Not classified as PBT or vPvB.

Other adverse effects : The alkalinity of this material will have a local effect on ecosystems sensitive to changes in pH.

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Ecotoxicological Information (as Sodium Carbonate):

Toxicity :

96 – hour LC50: 265 – 565 mg/l (daphnia magna) (low toxicity)
300 – 320 mg/l (blue gill sunfish) (low toxicity)

96 – hour TLm: 1200 mg/l (mosquito-fish)

48 – hour TLm: 840 mg/l (mosquito-fish)

48 – hour EC50: 265 mg/l (daphnia magna)

5 Day EC 50: 242 mg/l (Nitzscheria linearis)

Chronic Ecotoxicity : 7 Day EC, biomass: 14 mg/l (phytoplankton)

Persistence and degradability :

Abiotic Degradation : Water (hydrolysis): degradation's products: carbonate (pH>10) / carbonic acid / carbon dioxide (pH<6).

Soil: Hydrolysis as a function of pH.

Biotic Degradation : Aerobic / anaerobic: Not applicable (inorganic compound)

Bioaccumulative potential : Not applicable (ionizable inorganic compound)

Mobility : Air: Not Applicable

Water: Considerable solubility and mobility. Soil / sediments: Non-significant adsorption

Comments : Observed effects are related to alkaline properties of the product. Product is not significantly hazardous for the environment

Ecological Information (as Sodium Tripolyphosphate) :

Toxicity : No data found for product.

Persistence and degradability : No specific biodegradation test data located. While the alkalinity of this material is readily reduced in natural waters, the resulting phosphate may persist indefinitely or incorporate into biological systems.

Bioaccumulative potential : No data found for product.

Mobility in Soil : No data found for product.

Results of PBT and vPvB assessment : PBT and vPvB assessment has not been carried out.

Other adverse effects: No studies have been found.

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

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SECTION 14 : TRANSPORTATION INFORMATION

Transportation Emergency Telephone Number: 3E 24 hour number : (866)302-6855*

*Please refer to c# referenced in section 1 of this sds.

UN Number / DOT Proper Shipping Name / DOT Hazard Class /Packing Group / DOT Label & other information:

UN3262, CORROSIVE SOLID, BASIC, INORGANIC, N.O.S.
(contains Sodium Metasilicate), 8, PGII,
(CORROSIVE, ERG#154)

SECTION 15 : REGULATORY INFORMATION

US FEDERAL REGULATIONS :

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

CERCLA RQ - 40 CFR 302.4(a) :

<u>Component</u>	<u>RQ (lbs)</u>
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none

Spills or releases resulting in the loss of any ingredient at or above its RQ requires immediate notification to the National Response Center (800) 424-8802 and to your Local Emergency Planning Committee.

SARA 302 Components - 40 CFR 355 Appendix A

<u>Section 302 Component(s)</u>	<u>TPQ (lbs)</u>	<u>RQ (lbs)</u>
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None

SARA 311/312 Classification - 40 CFR 370.2 :

(as Sodium Metasilicate) Acute Health Hazard

(as sodium carbonate) Immediate (acute)

(as Sodium Tripolyphosphate) : Acute

SARA 313 Components - 40 CFR 372.65:

<u>Section 313 Component(s)</u>	<u>CAS #</u>	<u>%</u>
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None

INTERNATIONAL REGULATIONS :

Sodium Carbonate (CAS#497-19-8) is listed on the following inventories :

WHMIS Classification (Canada) D2B Toxic Class E Corrosive

DSL (Canada); EINECS Inventory (207-838-8); European Union Annex I (Substances directive)

(011-005-00-2 Xi, R-36); German Water Classification (Hazard class 1, low hazard to waters); EU

Food Additives Directive (95/2/EC) Annex I Generally Permitted for Use in Food (E500); Sodium

Carbonate is also found in the chemical inventories of Australia, China, Korea, Japan and the

Philippines.

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STATE REGULATIONS :

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

Other Regulations / Legislation which apply to this product:

Sodium Metasilicate (CAS# 6834-92-0) is listed on the following inventories : Pennsylvania Right To Know, New Jersey Right To Know

SECTION 16 : OTHER INFORMATION

NFPA Rating : HEALTH: 3 FLAMMABILITY: 0 REACTIVITY: 0

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

Revision Date : 7/17/2023

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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.