Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU)

No. 2015/830 – United Kingdom (UK) and Australian Requirements

**SAFETY DATA SHEET**

**310 Alkaline Cleaner**

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**1 – IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY UNDERTAKING**

PRODUCT NAME: **310 Alkaline Cleaner**

PRODUCT NUMBER: 9-310

RECOMMENDED USE: Aircraft coatings and cleaners

RESTRICTIONS ON USE: Not applicable

SUPPLIER: Poly-Fiber, Inc.

 P.O. Box 3129, Riverside, CA 92519, USA

 4343 Fort Drive, Riverside, CA 92509, USA

 (951) 684-4280

 (951) 809-7144

 (760) 782-1947

EMERGENCY TELEPHONE: (800) 424-9300 (Chemtrec- US)

 (703) 527-3887 (International – Call Collect) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**2 - HAZARDS IDENTIFICATION**

**GHS Hazard Category**

Eye Irritation - Category 2A

Skin Irritation- Category 2

Respiratory Irritation- Category 3

Specific target organ toxicity (single exposure) – Category 3, Central Nervous System H336

**Label Elements**

**Pictograms**



**Signal Word**

**DANGER**

**Hazard Statements**

Irritating to eyes and skin

May cause drowsiness or dizziness

Harmful: danger of serious damage to health by prolonged exposure through inhalation

Possible risk of harm to the unborn child

Harmful: may cause lung damage if swallowed

**Precautionary Statements**

**Prevention**

Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Store in a well-ventilated place. Keep container tightly closed. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe mist/vapors/spray.

**Response**

INHALATION:

Move the victim to a fresh air place immediately. Get medical attention if discomforts persist.

INGESTION:

Rinse mouth with clean water immediately. DO NOT induce vomiting. Get medical attention immediately. If vomiting occurs, keep the victim’s head low so that vomits from the stomach will not enter the lungs.

SKIN CONTACT:

Remove contaminated clothing and flush the affected skin areas with clean water for at least 15 minutes. Get medical attention if discomforts persist.

EYES CONTACT:

Make sure all contact lenses are removed before flushing the eyes with eye lids open with clean water for at least 15 minutes. Get medical attention promptly if symptoms occur after washing.

**Storage**

Store in a well-ventilated Place. Keep container tightly closed. Keep cool. Store in a locked cabinet, cage or room.

**Disposal**

Dispose of contents and container in accordance with all local, regional, national and international regulations.

CLASSIFICATION (1999/45) XI, C, R35, R36/37/38,

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**3 – COMPOSITION /INFORMATION ON INGREDIENTS**

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|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **EC No.** | **CAS No.** | **Content %** | **Classification (67/548/EEC)** |
| Tetrasodium Pyrophosphate | 231-767-1 | 7722-88-5 | 0-10% | H302, H318, P280, P305+P351+P338 |
| Trisodiumphosphate | Not listed | 10101-89-0 | 0-10% | XI, R36/37/38, S26, S37/39 |
| Tetrapotassium Pyrophosphate | 230-785-7 | 7320-34-5 | 0-40% | XI, R36/37/38, S24/25, S37, S45, S28A |
| Sodium Hydroxide | 215-185-5 | 1310-73-2 |  <1% | C, R35, S26, S37/39, S45 |

The Full Text for all R-Phrases and S-Phrases is displayed in Section 15

COMPOSITION COMMENTS

The data shown are in accordance with the latest EC Directives.

**4- FIRST AID MEASURES**

**NOTICE:**

Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE:

Low hazard for usual industrial handling by trained personnel.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE:

Although this is a water system, some people may be sensitive to some ingredients. These people may experience skin irritation, defatting and/or dermatitis. Eye contact with this product should be avoided. This may cause irritation and the eyes should be flushed with water for at least 15 minutes.

INGESTION HEALTH RISK AND SYMPTOMS OF EXPOSURE:

Preexisting eye, skin, heart, central nervous system and respiratory disorders may be aggravated by exposure to this product.

HEALTH HAZARDS (ACUTE AND CHRONIC):

Being a water-reducible system, health hazards are minimized. However, care must be exercised in its use. Breathing the vapors may irritate the nose and throat. Detectable amounts of chemicals or substances known to the state of California to cause cancer, birth defects, or other reproductive harm may be found in this product. Use care when handling chemical and petroleum products even though they are water reducible.

CARCINOGENICITY: NTP CARCINOGEN: N/A IARC MONOGRAPHS: N/A OSHA REGULATED: N/A

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE TO THIS PRODUCT:

Preexisting eye, skin, heart, central nervous system and respiratory disorders may be aggravated by exposure to this product.

**EMERGENCY AND FIRST AID PROCEDURES**:

Remove victim to fresh air and restore breathing if required. Call a physician if required. If breathing stops give artificial respiration. Keep person warm. Never give anything by mouth to an unconscious person. Do not induce vomiting. If spontaneous vomiting occurs, keep head below hips to prevent aspiration of liquid into the lungs.

**5- FIRE FIGHTING PROCEDURES**

EXTINGUISHING MEDIA:

CO2, Dry Chemical, Water Fog

SPECIAL FIREFIGHTING PROCEDURES:

Do not enter a confined area without full bunker gear including a positive-pressure NIOSH-approved self-contained breathing apparatus. Decomposition products may form toxic materials. Non-flammable

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Not known

**6-ACCIDENTAL RELEASE MEASURES**

PERSONAL PRECAUTIONS:

Wear protective clothing as described in Section 8.

ENVIRONMENTAL PRECAUTIONS:

Spillages or uncontrolled discharges into watercourses must immediately be alerted to Environmental Agency or other appropriate regulatory authority.

SPILL CLEANUP METHODS:

Keep combustibles away from spilled material. Extinguish all ignition sources. Avoid sparks, open flames, and smoking. Ventilate. Absorb in vermiculite, dry sand, or earth and place into containers for disposal.

**7-HANDLING AND STORAGE**

USAGE PRECAUTIONS:

Keep away from heat, sparks and open flames. Avoid spilling, skin and eyes contact. Use with adequate ventilation and avoid excessive exposure to solvent vapors. Use approved respirator if air contamination exceeds the accepted level.

STORAGE PRECAUTIONS:

FLAMMABLE/Combustible. Keep away from oxidizers, open flames and other ignition sources. Keep unused contents in original container and tightly closed lids. Store in a cool, dry and well-ventilated place and at an ambient Temperature not to exceeding above 120o F.

STORAGE CLASS:

FLAMMABLE liquid storage.

**8-EXPOSURE CONTROL/PERSONAL PROTECTION**

|  |  |  |
| --- | --- | --- |
| Name | Workplace Exposure Limits | Remarks |
| Tetrasodium Pyrophosphate | ACGIH: 10 mg/m3 TWA (inhalable particles), 3 mg/m3 TWA (respirable particles)NIOSH: Not listedOSHA-Final PELs: 15 mg/m3 TWA (total dust), 5 mg/m3 TWA (respirable fraction | Consult local authorities for acceptable exposure limits |
| Trisodiumphosphate | ACGIH: Not listedNIOSH: Not listedOSHA-Final PELs: Not listed | Same As Above |
| Tetrapotassium Pyrophosphate | ACGIH: Not listedNIOSH: Not listedOSHA-Final PELs: Not listed | Same As Above |
| Sodium Hydroxide | ACGIH: 2 mg/m3 CeilingNIOSH: 10 mg/m3 IDLHOSHA-Final PELs: 2 mg/m3 TWA | Same As Above |

PROTECTIVE EQUIPMENTS: 

PROCESS CONDITIONS: Provide eyewash station.

ENGINEERING MEASURES: Provide adequate ventilation. Fully equipped spray booth is recommended to ensure the workers legal exposure limits are not exceeded.

RESPIRATORY EQUIPMENT: Wear respirator with appropriate cartridge for organic solvents and chemicals.

HANDPROTECTION: Wear approved gloves such as Neoprene, Nitrile or Rubber types.

EYE PROTECTION: Wear splash-proof goggles.

OTHER PROTECTION: Wear appropriate clothing to prevent any possible skin contact.

HYGIENE MEASURES: DO NOT SMOKE IN THE WORK AREA. Wash at the end of each work shift and before eating, drinking or smoking. Promptly remove contaminated clothing.

**9- PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE: Liquid

COLOR: Green or Brown.

ODOR: Pine scent

BOILING POINT: Not Established

RELATIVE DENSITY: 1.06 g/mL

VAPOR DENSITY: Heavier than air

FLASH POINT: Not Determined (Closed Cup)

FLAMMABILITY LIMITS: LOWER: NA UPPER: NA

SOLUBILITY VALUE

(g/100g H2O @ 20oC): Complete

VOLATILE ORGANIC COMPOUND

(VOC): 0 g/L

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**10- STABILITY AND REACTIVITY**

STABILITY:

Stable

CONDITIONS TO AVOID:

Heat will coagulate product

INCOMPATIBILITY (MATERIALS TO AVOID):

Material very stable but may react with strong acids while in liquid form.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:

N/A

HAZARDOUS POLYMERIZATION:

N/A

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**11-TOXICOLOGICAL INFORMATION**

**Tetrasodium Pyrrophosphate (CAS#7722-88-5)**: Acute Eye Irritation: Toxicological Information and Interpretation:

eye - eye irritation, rabbit. Moderately to severely irritating.

Acute Skin Irritation: Toxicological Information and Interpretation:

skin - skin irritation, rabbit. Non-irritating.

Acute Dermal Toxicity: Toxicological Information and Interpretation:

LD50 - lethal dose 50% of test species, > 2000 mg/kg, rabbit.

Acute Respiratory Irritation: No test data found for product.

Acute Inhalation Toxicity: No test data found for product.

Acute Oral Toxicity: Toxicological Information and Interpretation:

LD50 - lethal dose 50% of test species, 4000 mg/kg, rat., LD50 - lethal dose 50% of test species, 2980 mg/kg, mouse.

LD50 - lethal dose 50% of test species, 2150 mg/kg, rat (male). LD50 - lethal dose 50% of test species, 1825 mg/kg, rat (female).

Chronic Toxicity: This product does not contain any substances that are considered by OSHA, NTP, IARC or ACGIH to

be "probable" or "suspected" human carcinogens.

**Trisodium Phosphate (CAS#10101-89-0)** : Investigated as a mutagen: LD50/rat/oral=7400 mg/kg

**Tetrapotassium Pyrrophosphate (CAS#7320-34-5)** :

Oral - rat LD50: 2,980 mg/kg; slightly toxic, Dermal - rabbit LD50: > 7,940 mg/kg; practically nontoxic , Eye Irritation - rabbit: severely irritating, Skin Irritation - rabbit: 0.5/8.0 (24-hr. exposure); practically nonirritating, Following repeated exposure (13-weeks) to this product in their food, kidney damage with changes in body weight, food consumption, clinical parameters and organ weights were reported at high-dose levels in rats. This material has been defined as a hazardous chemical under the criteria of the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Sodium Hydroxide (CAS#1310-73-2)** : EYE EFFECTS: Severely irritating, corrosive (rabbit) [RTECS 1986, NIOSH 1975],

SKIN EFFECTS: Severely irritating, corrosive (rabbit) [RTECS 1986, PB 234-899 1974], DERMAL LD50: Corrosive, ORAL LD50: 400 mg/kg (rabbit) LDLo [PB 234-899 1974], INHALATION LC50: Corrosive, TARGET ORGANS: Skin, eyes, mucous membranes

ACUTE EFFECTS FROM OVEREXPOSURE: Sodium hydroxide is corrosive and may produce severe eye, skin and respiratory tract irritation and upper gastrointestinal tract damage. Ingestion of concentrated solutions has caused death in animals and humans. [Gosselin, Smith & Hodge, 1984; PB 234-899 1974], CHRONIC EFFECTS FROM OVEREXPOSURE: Sodium hydroxide may produce inflammation of the eyes, skin, and mucous membranes. Esophageal carcinoma at the site of chronic lye

stricture has been reported. [Gosselin , Smith & Hodge 1984], CARCINOGENICITY: NTP: Not listed, IARC: Not listed, OSHA: Not listed OTHER: Not Listed (ACGIH)

**12- ECOLOGICAL INFORMATION**

**Tetrasodium Pyrrophosphate (CAS#7722-88-5)**:Ecotoxicological Information: No data found for product. Chemical Fate Information: 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.

**Trisodium Phosphate (CAS#10101-89-0)**: Environmental Fate: No information found. Environmental Toxicity: No information found.

**Tetrapotassium Pyrrophosphate (CAS#7320-34-5)**: Environmental toxicity:The following data have been classified using the criteria adopted by the European Economic Community (EEC) for aquatic organism toxicity.

96 hr. LC50 >100 mg/L (Rainbow trout & Medina, Inland silverside) - Practically non-toxic, 96 hr. LC50 >100 mg/L (Mysid shrimp) - Practically non-toxic, 48 hr. EC50 >100 mg/L - Practically non-toxic (Daphnia magna). Environmental fate: when dissolved / hydrolyzed in water it yields completely mineralized materials.

**Sodium Hydroxide (CAS#1310-73-2)** :ECOTOXICOLOGICAL INFORMATION: Bluegill sunfish: 48-hour LC50 = 99 mg/L

Mosquito fish: 96-hour LC50 = 125 mg/L, Brown shrimp (Crangon crangon): 48-hour LC50 = 30 - 100 mg/L. The damaging effects are mostly a consequence of the increase in pH. The upper pH limit tolerated by most freshwater fish is 8.4; the pH must generally be greater than 9 before the aqueous environment becomes lethal for fully developed fish. Freshwater algae are destroyed above pH 8.5. Concentrations of 20 to 100 mg/L have been reported to kill salmon, trout, carp and crayfish. [Ref. , Environment Canada,

Environmental Protection Service, Sodium Hydroxide Environmental and Technical Information for Problem Spills. June 1984]

CHEMICAL FATE INFORMATION: The pH effect of sodium hydroxide in water is naturally reduced by the absorption of atmospheric carbon dioxide. This reduction is also effected by dilution with water and by the natural acidity of a given water body. There is no degradation of sodium hydroxide in waters, only loss by absorption or through chemical neutralization.

**13 – DISPOSAL CONSIDERATIONS**

Hazardous wastes should be sent to a RCRA approved incinerator or disposed of in a RCRA approved waste facility. Dispose of container and unused contents in accordance with federal, state and local requirements.

I certify that all chemicals in this shipment comply with all applicable rules or orders under TSCA and that I am not offering a chemical substance for entry in violation of TSCA or any applicable rule or order under TSCA.

**14 – TRANSPORT INFORMATION**

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2015/830 – United Kingdom (UK) and Australian Requirements

**DOT / ADR / RID Classification**

**DOT / ADR / RID PROPER SHIPPING NAME: Soap**

**PRIMARY HAZARD CLASS/DIVISION: Not regulated**

**UN/UA NUMBER: Not regulated**

**PACKING GROUP: Not regulated**

**IMDG and ADN Classification**

**IMDG: NOT REGULATED**

**IATA: NOT REGULATED**

**GHS PRODUCT LABEL:**  

**WARNING**

**CAUSES SERIOUS EYE IRRITATION. CAUSES SKIN IRRITATION. MAY CAUSE ALLERGIC SKIN REACTION. HARMFUL OR FATAL IF SWALLOWED AND ENTERS AIRWAYS.**

Refer to MSDS for additional information on safe handling / use. - Keep out of reach of children. For Industrial Use Only.

**Contains**: Tetrasodium Pyrrophosphate, Trisodium Phosphate, Tetrapotassium Pyrrophosphate, and Sodium Hydroxide. This product contains one or more chemicals known to the State of California to cause cancer, birth defects, and/or other reproductive harm.

**Hazards**: May be corrosive to metals. Causes severe skin burns and eye damage. May cause respiratory irritation. Harmful to aquatic life.

**Precautionary Statement(s)**: Wash hands thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area.

**First Aid: Inhalation** - Move person to fresh air. If symptoms occur obtain medical attention. **Skin Contact** - Wash affected skin with soap and water. If symptoms occur obtain medical attention. **Eye Contact** - If substance has got into the eyes, immediately wash out with plenty of water for at least 15 minutes. If symptoms occur obtain medical attention. **Ingestion** - Do not induce vomiting. Drink one glass of water. If symptoms occur obtain medical attention

**15 – REGULATORY INFORMATION**

**Hazards:** May be corrosive to metals. Causes severe skin burns and eye damage. May cause respiratory irritation. Harmful to aquatic life.

**Precautionary Statement(s):** P264: Wash hands thoroughly after handling. P280: Wear protective gloves/protective clothing/eye protection/face protection. P261: Avoid breathing dust/fume/gas/mist/vapors/spray. P271: Use only outdoors or in a well-ventilated area.

CODES:  

 XI C

* XI=harmful
* C=corrosive

R-Phrases:

R35: Causes severe burns

R36/37/38: Irritating to eyes, respiratory system and skin

S-Phrases:

S24/25: Avoid contact with skin and eyes

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S28A: After contact with skin, wash immediately with plenty of water

S37: Wear suitable gloves

S37/39: Wear suitable gloves and eye/face protection

S45: In case of accident or if you feel unwell seek medical advice immediately (show the label where possible)

H-Statements:

H302: Harmful if swallowed

H318: Causes serious eye damage

P-Statements:

P280: Wear protective gloves/eye protection/face protection

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

# 16- DISCLAIMER

Above information is based on data supplied to us and is believed to be correct. Since the information contained herein may be applied under conditions beyond our control and with which we may be unfamiliar and since the data made available subsequent to the date hereof may suggest modifications of the information, we do not assume responsibility for the results of its use. This information is furnished upon the condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose. It is the user's obligation to determine the safe use of it.

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