



Revision date: Initial version
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Trade name:	PEN FLUSH
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SECTION 1: Identification

Product identifier used on the label:

Product identifier: Pen Flush.

Other means of identification:

Product Code Number: Not applicable.

Recommended use of the chemical and restrictions on use:

Recommended use: Fountain pen cleaning solution.

Recommended restrictions: Uses other than as recommended above.

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party:

Company Name: Yafa Pen Company.

Company Address: 21306 Gault St,
Canoga Park, CA 91303

Company Telephone: (818)704-8888
8am – 5pm

Company Contact Name: Clara Cornett

Emergency phone number: (818)704-8888.

SECTION 2: Hazard(s) identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200:

Physical hazards

Not classified as containing physical hazards under OSHA GHS §1910.1200

Health hazards

Skin Corrosion, Category 1B.

Serious Eye Damage, Category 1.

Environmental hazards

Not adopted under OSHA GHS §1910.1200.

GHS Signal word: DANGER.

GHS Hazard statement(s): Causes severe skin burns and eye damage.
Causes serious eye damage.

GHS Hazard symbol(s):



GHS Precautionary statement(s):

Prevention:

- Do not breathe dusts or mists.
- Wash skin thoroughly after handling.
- Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

- If swallowed: Rinse mouth. Do NOT induce vomiting.
- If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- If inhaled: Remove person to fresh air and keep comfortable for breathing.
- If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Immediately call a poison center/doctor.
- Specific treatment (see section 4 to 8 on this SDS and any additional information (where available) on this label).
- Wash contaminated clothing before reuse.

Storage:

- Store locked up.

Disposal:

- Dispose of contents/containers to an approved disposal site in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

Classified (HNOC): None known.

Percentage of ingredient(s) of unknown acute toxicity:

- 9% of the mixture consists of ingredients of unknown acute toxicity (oral/dermal).
- 4% of the mixture consists of ingredients of unknown acute toxicity (inhalation).

SECTION 3: Composition/information on ingredients**Mixture:**

Chemical name	CAS#	Concentration (weight %)
Ammonia	7664-41-7	5.3%
Potassium sorbate	590-00-1	1.6%

Note: The balance of the ingredients are not classified as hazardous or are below the concentration limit to be classified as hazardous, under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

SECTION 4: First-aid Measures**Description of necessary measures, subdivided according to the different routes of exposure, i.e., inhalation, skin and eye contact, and ingestion:**

Inhalation: If inhaled move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

Skin contact: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash contaminated clothing before reuse. Thoroughly clean contaminated shoes before reuse.

Eye contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. Get medical attention. In case of irritation from airborne exposure, move to fresh air. Get medical attention if symptoms persist.

Ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Most important symptoms/effects, acute and delayed: Causes skin corrosion and serious eye burns.

Indication of immediate medical attention and special treatment needed: If any symptoms are observed, contact a physician and give them this SDS sheet. If exposed or concerned: Get medical advice/attention.

SECTION 5: Fire-fighting measures**Suitable (and unsuitable) extinguishing media:**

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media: None known.

Specific hazards arising from the chemical (e.g., nature of any hazardous combustion products):

Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous combustion products include CO (Carbon Monoxide), CO₂ (Carbon Dioxide), NO (Nitrogen oxides).

Special protective equipment and precautions for fire-fighters: Wear self-contained breathing apparatus and protective clothing. Water may be ineffective in fighting the fire. Use water spray to keep fire-exposed containers cool. Material will float and may ignite on the surface of water. Fight fire from a protected location. Wear self-contained breathing apparatus and protective clothing. In addition, wear other appropriate protective equipment as conditions warrant (see Section 8).

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures: Evacuate danger area. Prevent vapor build-up. Stay upwind and away from spill/release. Avoid direct contact with liquid and vapors. For large spillages, notify persons downwind of the spill/release, isolate immediate hazard area and keep unauthorized personnel out. Wear appropriate protective equipment, including respiratory protection, as conditions warrant (see Section 8). See Sections 2 and 7 for additional information on hazards and precautionary measures.

Environmental Precautions: Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems, and natural waterways. Use water sparingly to minimize environmental contamination and reduce disposal requirements. If spill occurs on water notify appropriate authorities and advise shipping of any hazard.

Methods and materials for containment and cleaning up: Notify relevant authorities in accordance with all applicable regulations. Immediate cleanup of any spill is recommended. Dike far ahead of spill for later recovery or disposal. Eliminate all ignition sources. Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in suitable container. For large spills: Use water spray to disperse vapors, flush spill area. Prevent runoff from entering waterways or sewers. Dispose of all contaminants according to federal, state, and local regulations. Recommended measures are based on the most likely spillage scenarios for this material; however local conditions and regulations may influence or limit the choice of appropriate actions to be taken. See Section 13 for information on appropriate disposal.

SECTION 7: Handling and Storage

Precautions for safe handling: Wear appropriate personal protective equipment. Avoid breathing mist or vapor. Avoid contact with eyes, skin or clothing. Do not taste or swallow. Use only with adequate ventilation. Wash thoroughly after handling. Comply with all national, state, and local codes pertaining to the storage, handling, dispensing, and disposal of flammable liquids.

Conditions for safe storage, including any incompatibles: Keep container tightly closed in a cool, well-ventilated place. Keep away from heat and light. Keep away from incompatible materials (see Section 10) and food / feedstuffs. Protect container(s) against physical damage.

SECTION 8: Exposure controls/personal protection

OSHA permissible exposure limit (PEL), American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV), and any other exposure limit used or recommended by the chemical manufacturer, importer, or employer preparing the safety data sheet, where available:

US OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200): Permissible Exposure Limits			
Substance	PEL-TWA (8 hour)	PEL-STEL (15 min)	REMARKS
Ammonia	50 ppm 35 mg/m ³	No data available	
Potassium sorbate	No data available	No data available	

US ACGIH Threshold Limit Values			
Substance	TLV-TWA	TLV-STEL	REMARKS
Ammonia	25 ppm	35 ppm	Upper Respiratory Tract irritation Eye damage
Potassium sorbate	No data available	No data available	

Other Exposure Limits			
Substance	TWA	STEL	REMARKS
Ammonia	25 ppm 18 mg/m ³	35 ppm 27 mg/m ³	NIOSH Recommended Exposure Limits
Potassium sorbate	No data available	No data available	

Appropriate engineering controls: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment:

Eye/face protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: Chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and Hand protection:

Handle with chemical-resistant impervious gloves complying with an approved standard. Gloves must be inspected prior to use. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

Respiratory protection: If engineering controls do not keep airborne concentrations below established exposure limits or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA Standard 63 FR 1152, January 8, 1998. Respiratory type: Air-purifying respirator with an appropriate, government approved (where applicable), air-purifying filter, cartridge or canister. Contact health and safety professional or manufacturer for specific information.

Other: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Thermal hazards: No data available.

SECTION 9: Physical and chemical properties

Appearance (physical state, color, etc.):

Physical state:	Liquid
Color:	Clear
Odor:	Ammonia.
Odor threshold:	No data available
pH:	Basic
Melting point/freezing point:	No data available
Initial Boiling Point and boiling range:	No data available
Flash point:	No data available
Evaporation rate:	No data available
Flammability (solid, gas):	No data available
Upper/lower flammability or explosive limits	
Flammability limit – lower (%):	Not applicable
Flammability limit – upper (%):	Not applicable
Explosive limit – lower (%):	Not applicable
Explosive limit – upper (%):	Not applicable
Vapor pressure:	No data available
Vapor density (air=1):	No data available

Relative density (water = 1): No data available
Solubility(ies): No data available
Partition coefficient (n-octanol/water): No data available
Auto-ignition temperature: No data available
Decomposition temperature: No data available
Viscosity @ 20°C: No data available

SECTION 10: Stability and Reactivity

Reactivity: Not chemically reactive.
Chemical stability: Stable under normal ambient and anticipated conditions of use.
Possibility of hazardous reactions: Hazardous reactions not anticipated.
Conditions to avoid: Avoid contact with incompatible materials, elevated temperatures, sparks, flames and ignition sources.
Incompatible materials: Avoid strong oxidizing agents.
Hazardous decomposition products: Carbon monoxide, carbon dioxide and nitrogen oxides.

SECTION 11: Toxicological information

Information on likely routes of exposure:

Inhalation: Not an expected route of entry.
Skin: Expected to be a route of entry.
Eyes: Expected to be a route of entry.
Ingestion: Not an expected route of entry.

Symptoms related to the physical, chemical, and toxicological characteristics:

Corrosive to skin and eyes.

Delayed and immediate effects and chronic effects from short or long-term exposure:

Causes burns to skin and serious eye damage.

Numerical measures of toxicity:

Acute toxicity estimates:

Ingredient Information:

Substance	Test Type (species)	Value
Ammonia	LD ₅₀ Oral (Rat)	No data available
	LD ₅₀ Dermal (Rabbit)	No data available
	LC ₅₀ Inhalation (Rat)	7338 ppm (1h) 2000 ppm (4h)
Potassium sorbate	LD ₅₀ Oral (Mouse)	3800 mg/kg
	LD ₅₀ Dermal (Rabbit)	No data available
	LC ₅₀ Inhalation Rat)	No data available

Product Acute Toxicity Estimates:

Acute Oral Toxicity – no data available
Acute Dermal Toxicity - no data available
Acute Inhalation Toxicity - no data available

Skin corrosion/irritation:	Causes skin burns. Symptoms may include reddening, itching, inflammation, defatting and dermatitis.
Serious eye damage/eye irritation:	This material can cause serious eye damage. Symptoms may include irritation, redness, and tearing.
Respiratory sensitization:	No information available on the mixture, however none of the components have been classified for respiratory sensitization (or are below the concentration threshold for classification).
Skin sensitization:	No information available on the mixture, however none of the components have been classified for skin sensitization (or are below the concentration threshold for classification).
Germ cell mutagenicity:	No information available on the mixture, however none of the components have been classified for germ cell mutagenicity (or are below the concentration threshold for classification).
Carcinogenicity:	No information available on the mixture, however none of the components are listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or has been found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition), or by OSHA.
Reproductive toxicity:	No information available on the mixture, however none of the components have been classified for reproductive toxicity (or are below the concentration threshold for classification).
Specific target organ toxicity- Single exposure:	This material is not expected to cause damage to organs from a single exposure.
Specific target organ toxicity- Repeat exposure:	This material is not expected to cause damage to organs from repeated exposure.
Aspiration hazard:	Not expected to be an aspiration hazard based upon its components.

SECTION 12: Ecological information

Ecotoxicity (aquatic and terrestrial, where available):

Product data: No data available

Ingredient Information:

Substance	Test Type	Species	Value
Ammonia	LC ₅₀	Fish - Hypophthalmichthys nobilis (Bighead carp)	300 µg/l (96h)
	NOEC	Fish - Dicentrarchus labrax (European seabass)	0.204 mg/l (62 hours)
	EC ₅₀	Invertebrate Daphnia (Water flea)	0.53 ppm (48h)
	EC ₅₀	Algae Ulva fasciata - Zoea	29.2 mg/l (96 h)
	LC ₅₀	Crustaceans - Gammarus pulex	2080 µg/l (48 h)
Potassium sorbate	LC ₅₀	Fish	No data available
	EC ₅₀	Daphnia magna	No data available
	EC ₅₀	Algae	No data available

Persistence and Degradability: No data available

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.

Other adverse effects (such as hazardous to the ozone layer):
Expected to be harmful to aquatic life.

SECTION 13: Disposal considerations

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging:

Product - Dispose in accordance with applicable federal, state, and local regulations. Mix with compatible chemical which is less flammable and incinerate.

Contaminated packaging - Since emptied containers retain product residue, follow label warnings even after container is emptied. Residual vapors may explode on ignition; do not cut, drill, grind, or weld on or near this container.

SECTION 14: Transport Information

US Department of Transportation Classification (49CFR)

Pen Flush

UN number UN 3266
UN proper shipping name CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.
(AMMONIA, POTASSIUM SORBATE)
Transport hazard class(es) 8
Packing group, if necessary II

TDG

UN number UN 3266
UN proper shipping name CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.
(AMMONIA, POTASSIUM SORBATE)
Transport hazard class(es) 8
Packing group, if necessary II

Maritime transport IMDG

UN number UN 3266
UN proper shipping name CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.
(AMMONIA, POTASSIUM SORBATE)
Transport hazard class(es) 8
Packing group, if necessary II

Air transport ICAO-TI and IATA-DGR

UN number UN 3266
UN proper shipping name Corrosive liquid, basic, inorganic, n.o.s. (Ammonia, Potassium
sorbate)
Transport hazard class(es) 8
Packing group, if necessary II

Environmental hazards

Marine pollutant: Yes.

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code)

No further relevant information available.

Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises.

None.

SECTION 15: Regulatory Information

USA:

United States Federal Regulations: This SDS complies with the OSHA, 29 CFR 1910.1200.
The product is hazardous under OSHA.

Toxic Substances Control Act (TSCA) – All substances in this product are listed, as required, on the TSCA inventory.

CERCLA Hazardous Substance List, 40 CFR 302.4:

Component	Reportable Quantity
Ammonia	100 lbs

SARA Title III

Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A): None

Section 311/312 (40 CFR 370):

Acute Health Hazard: Yes

Chronic Health Hazard: Yes

Fire Hazard: No

Pressure Hazard: No

Reactivity Hazard: No

Section 313 Toxic Release Inventory (40 CFR 372):

Component	CAS No.	Weight %
Ammonia	7664-41-7	5.3%

STATE REGULATIONS:

This SDS contains specific health and safety data is applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

California Proposition 65 (California Safe Drinking Water and Toxic Enforcement Act of 1986:

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Massachusetts Right to Know: Ammonia is listed on the Massachusetts Right to Know List.

New Jersey Right to Know: Ammonia and Potassium sorbate are listed on the New Jersey Right to Know list.

Pennsylvania Right to Know: Ammonia and Potassium sorbate are listed on the Pennsylvania Right to Know List.

Canada WHMIS Hazard Class: This product has been classified as Class E in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

SECTION 16: Other Information

Revision Date: May 22, 2016

Pen Flush

To the best of our knowledge, the information contained herein is accurate. However, Yafa Pen Company does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.