

MATERIAL SAFETY DATA SHEET**SECTION I – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION****PRODUCT NAME:** Urn Clean™ All Purpose Brewing Equipment Cleaner

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SECTION II – HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

HAZARDOUS COMPONENTS	OSHA PEL	ACGIH TLV	NIOSH REL	% by weight
Sodium metasilicate CAS# 6834-92-0	N/A	N/A	N/A	<20%
Sodium Perborate Tetrahydrate CAS# 10486-00-7	N/A	N/A	N/A	<10%

** Exact concentrations are proprietary. Potential hazards have been evaluated and pertinent information has been included in Sections III – XVI. **

SECTION III – HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:	Contains an oxidizer. Decomposition under fire conditions may release small amounts of oxygen. Product is non-combustible. Reacts with acids to release carbon dioxide and heat. Dust irritating to eyes and respiratory tract. Continuous contact may irritate skin. Harmful if swallowed.
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POTENTIAL HEALTH EFFECTS:

INGESTION –	May irritate mucous membranes, mouth, throat, and gastrointestinal tract.
INHALATION –	Dusts and mists are irritating mucous membranes and upper respiratory tract.
EYE CONTACT –	May cause severe irritation of the eyes, including corneal opacities.
SKIN CONTACT –	Continuous contact cause skin irritation (red, dry, cracked skin). Severe irritation may develop in abraded skin.

SECTION IV – FIRST AID MEASURES

INGESTION –	Rinse mouth with water. Dilute by giving 1 or 2 glasses of water. Never give anything by mouth to an unconscious person. Do not induce vomiting. See a medical doctor immediately.
INHALATION –	If exposed to excessive levels of dust, remove to fresh air. If irritation occurs and persists, get medical attention.
EYE CONTACT –	Flush eyes with large amounts of water for at least 15 minutes, lifting upper and lower lids intermittently. See a medical doctor immediately.
SKIN CONTACT –	Brush off excess chemical and wash with soap and water. If irritation occurs and persists, get medical attention.
NOTE TO	While internal toxicity is low, irritant effects of high concentrations may produce

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PHYSICIAN	corneal opacities and vesicular skin reactions in abraded skin only. May be corrosive to eyes and mucous membranes. Emesis or gastric lavage must consider possible esophageal perforation due to re-exposure to corrosives. Decomposition products may include peroxide (irritant) and borate. Systemic effects are unlikely, but would be those of boric acid for which treatment is symptomatic.
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SECTION V – FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA –	Water, water fog
SPECIAL FIREFIGHTING PROCEDURES –	Wear full protective clothing and self-contained breathing apparatus.
DEGREE OF FIRE AND EXPLOSION HAZARD –	Decomposition of Sodium Perborate liberates heat and oxygen which may intensify fire in combustible surroundings.
HAZARDOUS DECOMPOSITION PRODUCTS –	Heated to decomposition it will emit fumes of sodium oxide.

SECTION VI – ACCIDENTAL RELEASE MEASURES

RESPONSE TO SPILLS –	Sweep up and place in a disposal container. A method of disposal is in a landfill in accordance with all local, state, and federal regulations. Mop up or flush residue to drain with water.
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SECTION VII – HANDLING AND STORAGE

HANDLING PRECAUTIONS –	Do not get in eyes or on clothing. Avoid airborne dust. Avoid skin contact. Wash thoroughly with soap and water after handling.
STORAGE PRECAUTIONS –	Store in a cool, dry, clean area to assure product quality. Store away from acids.

SECTION VIII – EXPOSURE CONTROLS / PERSONAL PROTECTION

HYGIENIC PRACTICES	Avoid breathing dust.
ENGINEERING CONTROLS	No special requirements.

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATOR	Not necessary
GOGGLES/FACE SHIELD	Not necessary
APRON	Not necessary
GLOVES	Not necessary
BOOTS	Not necessary

SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

MELTING/FREEZING POINT:	NA	pH (1% SOLUTION):	11
BOILING POINT:	NA	DENSITY:	1.4 g/ml
VAPOR PRESSURE:	not applicable	FLASH POINT:	non combustible
APPEARANCE & STATE:	white, solid granular	AUTOIGNITION TEMP:	not applicable
ODOR:	odorless	FLAMMABLE LIMITS UPPER:	not applicable
SPECIFIC GRAVITY:	density = 1.4 g/ml	LOWER:	not applicable
SOLUBILITY IN H ₂ O % BY WT:	18 @ 25 C	EXPLOSIVE PROPERTIES:	none
% VOLATILES:	not applicable	OXIDIZING PROPERTIES:	contains an oxidizer (<10%)
EVAPORATION RATE:	non-volatile		

SECTION X – STABILITY AND REACTIVITY

STABILITY –	Stable
HAZARDOUS POLYMERIZATION –	Will not occur

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CONDITIONS TO AVOID –	Contact with acids
MATERIALS TO AVOID –	Aluminum powder, Acids, Fluorine, Molten Lithium,
MAJOR CONTAMINANTS THAT CONTRIBUTE TO INSTABILITY –	None
INCOMPATIBILITY –	Reacts with acids with release of carbon dioxide and heat.
HAZARDOUS DECOMPOSITION PRODUCTS –	Oxygen which supports combustion.

SECTION XI – TOXICOLOGICAL INFORMATION

ACUTE EFFECTS FROM OVEREXPOSURE:	May cause severe irritation of the eyes. Dusts and mists are irritating to skin, mucous membranes and upper respiratory tract.
CHRONIC EFFECTS FROM OVEREXPOSURE: (effects considered include: sensitivities, carcinogenicity, teratogenicity, mutagenicity, synergistic products, and medical conditions generally recognized as being aggravated by exposure)	Although no long-term human studies have been reported, there are no chronic effects that warrant control beyond that required to avoid irritation from airborne dust.

SECTION XII – ECOLOGICAL INFORMATION

BIODEGRADABILITY	Biodegradability is not applicable to inorganic compounds.
ECOTOXICITY	No data available.

SECTION XIII – DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD	May be disposed of in landfills according to applicable regulations.
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SECTION XIV – TRANSPORT INFORMATION

DOT PROPER SHIPPING NAME	Not applicable
IATA	Not applicable
IMDG	Not applicable
DOT CLASSIFICATION	Non-hazardous
DOT (LABELS, MARKING, PLACARD)	Not applicable
UN NUMBER	Not applicable
HAZARDOUS SUBSTANCE / RQ	Not applicable
PRECAUTIONS TO BE TAKEN IN TRANSPORTATION	Sweep up and return to container and mark as waste for disposal.

SECTION XV – REGULATORY INFORMATION

OSHA EXPOSURE LIMITS	Not applicable
TARGET ORGANS	Eyes and respiratory passages
CARCINOGENIC POTENTIAL	Not listed by OSHA, NTP, or by IARC
CERCLA (40 CFR 302)	Not listed and no reporting requirements
SARA TITLE III SEC 313 LISTED TOXIC CHEMICAL	Not listed
SARA TITLE III SEC 311/312 HAZARD CATEGORY	Immediate (Acute) Health Hazard
SARA TITLE III SEC 311/312 INVENTORY REPORTING	10,000 lbs. Threshold Planning Quantity
SARA TITLE III SEC 302-303 EMERGENCY PLANNING	Not listed
TSCA STATUS	Contains substances listed

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SECTION XVI – OTHER INFORMATION

PRODUCT USES: Commercial cleaner for espresso, coffee, and tea brewing equipment.

NFPA 704 CLASSIFICATION

2	BLUE	HEALTH HAZARD
0	RED	FLAMMABILITY
0	YELLOW	REACTIVITY
	WHITE	

Information contained in this MSDS refers only to the specific material designated and does not relate to any process or use involving other materials. This information is based on data believed to be reliable, and the product is intended to be used in a manner that is customary and reasonably foreseeable. Since actual use and handling are beyond our control, no warranty, expressed or implied, is made. Purdy Products Company assumes no liability concerning the use of this information.