

ROYAL ENTERPRISES, INC.

Simple Solutions for Coffee and Tea Equipment Maintenance

Dear Urnex® cleaning compound purchaser,

Enclosed you will find the MATERIAL SAFETY DATA SHEET you have requested regarding an URNEX® product specially manufactured for cleaning coffee or tea brewing, storage or serving equipment.

As you read the MSDS please keep in mind that the information, as required by law, is intended to inform workers coming in contact with the product of all possible effects these chemicals might have when used as intended and directed in the workplace.

Since common chemicals are used in these products they are listed by O.S.H.A.(along with thousands of other chemicals)as "Hazardous". This designation does not mean that these products are considered "dangerous". The intended and directed use of our finished products, pose no danger to any worker while being used in regular maintenance programs. The quantity of the product that your employees or your customers would use in any given maintenance task is usually 10z. of product or less.

The M.S.D.S. Informs workers concerned with maintenance of equipment that "It is highly recommended that the..." equipment "...being cleaned be attended by the person performing the procedure until the entire procedure is completed, all solution and residue is disposed of, and the unit ready for reuse."

We strongly suggest that this recommendation be followed to prevent any mishaps.

Royal Enterprises has been manufacturing URNEX® for over forty years and are confident that the products will safely assist you in maintaining equipment properly in order to serve coffee or tea just the way you intended, without the effects of residues and mineral deposits.

We would welcome any comments or suggestions you might have regarding our products, service or responses to your inquiries.

All the employees here at **ROYAL ENTERPRISES, INC.** appreciate your business.
Sincerely yours.

Joseph Dick

President

non Trade Name	e URNEX URN & BREWER CLEANER lasue Date: December 1, 1998				
facturer:	Royal Enterprises, Inc.			Emergency Telephone number:	
	170 Ludlow St.			(914) 963-2042	
	Yonkens, NY 10705 U.S	S.A.			
				MSDS Prepared B	
ोंद्धा:	As Above	Royal Enterprises, Inc.			
oct Use:	Coffee Equipment (Brev	ving, storage or serving)	Cleaner		
GREDIENTS:					
NAME		LD	LD	CAS NUMBER	_
dana Bar (2011)	l	50	50		
rdous Per OSHA Sodium C	\	4000	7.700	407.10.9	
Sodium C Sodium S	*	4090	2300	497-19-8	
	nicate Tipolyphosphate	1153	NA NA	1344-09-8 7758-29-4	
Sodium P		6500	•		
	-,	1200	NA	7775-29-4	
Dogecyi E	Benzene Sodium Sulfonat	t 1260	NA	25155-30-0	
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	Melting Point/Freezing Point			Not Applicable, decomposes at high temp.		
	Vapor Density			Not Ap	Not Applicable	
	Vapor Pressure	· · · · · · · · · · · · · · · · · · ·		Not Applicable		
Reactivity in Water				Non-reactuve		
IV FIRE	AND EXPLOSION	N DATA				
FLASH PO	OINT AUTO	IGNITION NA	TEMPERATURE	FLAMMABILITY NA	LIMITS IN AIR	
extreme he sodium ox Further, se oxidizer, a	eat and fire as the stide. Sodium oxide odium tripolyphospalthough its impact	odium carbot s is very corre hate releases on a fire shot	nate, sodium silicate a sive and irritating to t phosphorous oxides u uld be limited as it is	nd sodium tripolypho he eyes and respirato pon decomposition. a minor component o	ever, the material should be kept away from sphate decompose when heated and release by tract, and reacts violently with water. Finally, the sodium perborate is a strong of the mixture. above are more limited than they would be	
•	ame material in bul				·	
Extinguisl	hing Media		 Water spray, carbon is involved. 	dioxide or foam are	appropriate media in fires where this material	
Special Fire Fighting Procedures Unusual Fire and Explosion Hazards		None, however see comment above None, however see comment above				
V. REAC	TIVITY DATA		· · · · · · · · · · · · · · · · · · ·			
Stability:	bility: Under normal conditions of use, storage and transportation to heat (above 400 F), which can contribute to product decomp oxides of sodium or phosphorus.				rtation the product is stable. Avoid excessive decomposition and the release of dangerous	
Incompati	bility	May react violently with strong acids and aluminum. Reaction with aluminum may result in the ralease of hydrogen gas which is explosively ignitable. Dangerous reaction with aluminum is more likely if the aluminum is heated to red hot conditions, or if the aluminum is finely divided.				
Hazardous Products	s Decomposition	See Info	mation Above.			
	s Polymerization	Will not	Will not occur.			
VI. HEAI	LTH HAZARD IN	PORMATION	٧		agai ang ang ang ang ang ang ang ang ang ang	
Signs and Symptoms of Exposure		Irritation, burning or smarting of skin, eyes, respiratory tract or gastrointestinal tract. See below under individual routes of exposure.				
INHALA"	TION			=		
Acute			expected from cold be irritating to the u regarding hazardou	solution mix. Warm ipper respiratory tracts decomposition prod		
Chronic.			No chronic inhalati	on effects are known		
INGESTIC	ON:			of solution made per	ate irritation and upset of the gastrointestinal label instructions may result in mild irritation	
Chronic.			None known, howe severity of gastric is	•	n might be expected to result in increased	
SKIN.						
Acute: Chronic:			Material is a slight No chronic effects	to moderate skin irrit mown.	801.	

Powder may be moderate to acvere irritant to the eyes. Solution made according to

EYES:

Acute:

label instructions a slight to moderate eye irritant.

No chronic effects known.

MEDICAL CONDITIONS

AGGRAVATED BY EXPOSURE

Skin abrasions and gastrointestinal tract problems such as ulcers.

VI. EMERGENCY MEDICAL INFORMATION

INHALATION:

Remove to fresh air.

INGESTION:

Chronic:

Dilute by giving large quantities of water, do not induce vorniting. Get medical attn. Wash with cold water until any symptoms (smarting, irritation) cease. Follow with

soan and warm water wash.

EYES:

SKIN:

Immediately flush with cold water for 15 minutes. Seek medical attention if irritation

persists

VIII. PERSONAL PROTECTION BOUIPMENT

RESPIRATORY PROTECTION:

Use NIOSH/MSHA approved respirator for dust/firms and mist in areas of heavy

dusting of material.

HANDS, ARMS & BODY:

Plastic or rubber gloves to prevent skin contact with hands, otherwise normal work clothing, unless employee is warking in areas where bulk quantities of the material are handled, and additional exposure is possible. Contaminated clothing should be

removed and washed before reuse.

EYES AND FACE:

Wear eye protection: safety glasses, goggles, or face shield as needed.

OTHER CLOTHING AND

Eye wash stations and safety showers are advised where potential exists for exposure

to eyes or large areas of exposed skin, for example during packaging or other

EQUIPMENT:

handling of bulk quantities of the material.

IX. SPILL, LEAK AND DISPOSAL PROCEDURES

PRECAUTIONS TO BE TAKEN IN HANDLING & STORAGE:

STEPS TO BE TAKEN IN CASE

MATERIAL IS RELEASED OR

SPILLED

Store in a cool dry area as material is slightly hygroscopic. Avoid mixing in areas

where fans or other air currents could cause dusting to occur.

Scoop up spilled material, place in closed metal containers, wash residue down drain

with warm water.

WASTE DISPOSAL METHOD:

Consult federal, state and local regulations, and dispose in compliance with these

regulations.

CARCINOGEN INFORMATION

CHEMICAL LISTED AS A CARCINOGEN OR POTENTIAL CARCINOGEN?

By National Toxicology Program? By LA.R.C. Monographs? By OSHA?

NO NO

NO

Others?

None found

XI. SPECIAL PRECAUTIONS AND PROTECTION INFORMATION

Use with adequate ventilation. See note under Section IX regarding usage of product for intended use. Inadvertent drinking or other exposure by unknowing persons can be avoided by careful attendance to entire procedure. It is highly recommended that the coffee maker or other unit being cleaned be attended by the person performing the procedure until entire procedure is completed, all solution and residue is disposed of, and the unit is ready for reuse.

NOTE: The information in this MSDS is obtained from sources which we believe are reliable, however, the accuracy or completeness thereof is not guaranteed and no warranty of any kind is made with respect thereto. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons we assume no liability for the loss and damage incurred from the proper or improper use of such product.

ROYAL ENTERPRISES, INC