Approved by U.S. Department of Labor "es					UNUSUAL FIRE AND EXPLOSION HAZARDS					PROCEDURES	SPECIAL FIREFIGHTING	Extinguisher Any n	(Method Used) Not a	SECTION IV	Appearance & Odor	Solubility in Water	Vapor Density (Air=1)	Vapor Pressure (mm Hg)	Boiling Point (°F)	Melting Point (°F)	SECTION III	WARNING! HA	Sodium citrate, dihydrate:	Sodium carbonate, anhydrous:	Cupric sulfate, p	Principal Component(s)	C.A.S. No. Mixture. SECTION II	Unit Size 292 grams makes 1 Lt.	Formula Mixture.	Chemical Synonyms N/A	Product Benedict's Powder		Avon, New York 14414-9409	By Aldon Corporation	Innovating Science
Approved by U.S. Department of Labor "essentially similar" to form OSHA-20			products as dust or fume.	Fire or excessive he	S			preatning apparatus	In fire conditions, we	L	NG	Any media sultable for extinguishing the supporting fire	Not applicable. % by Votum	FIRE AND EXPLO	White crystalline powder; no odor.	Complete.	NIA	) N/A	Mixture (decomposes)		PHYSICAL DATA	WARNING! HARMFUL IF SWALLOWED.	lihydrate: (CAS No. 6132-04-3)	te, anhydrous: (CAS No. 497-19-8)	Cupric sulfate, pentahydrate: (CAS No. 7758-99-8)		INGREDIENTS OF MIXTURES	nakes 1 Lt.			bowder	NAME	14414-9409	outting	
-20			fume.	Fire or excessive heat may produce hazardous decomposition			In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective clothing.					upporting fire.	% by Volume Innas in Air N/A	ION HAZARD DA	у.			Evaporation Rate ( =1)	Percent Volatile by Volume (%)	Specific Gravity (H <sub>2</sub> O = 1)			60%	34%	6%	%		- HAZARD RATING MINIMAL SLIGHT MODE	NFPA	B00-424-9300 Day 585-226-6177	- CHEMTREC	24 HOUR EMERG	a dassroom* MSDS No.: Effective Date:		MATERIAL SAFETY DATA SHE
				s decomposition									Concerned Copport					N/A	N/A	Unknown.			None established.	None established.	See Section V.	TLV Units	23	SERIOUS SE	Reactivity 1	Fire	TREC Health 2	24 HOUR EMERGENCY ASSISTANCE	is4007 ie: May 18, 2005	3680.	DATA SHEET
health of employees. *	The information contain	Devicion No.	5	Other Precaut	Keep container fightly closed when not in use.	Precautions to be Taken	SECTION IX	Other Protective Equipment	<b>Protective Gloves</b>	Ventilation	(Specify Type)	SECTION VIII		Waste Disp			Steps to be taken in material is released	SECTION VII	inco Anii	May Occur	Decomposition From	Hazardous	(Materials to Avoid)	Incompatibility	Stability	SECTION VI	medical attention. INHAL difficult, give oxygen. Get	with water for SKIN: Remo	anything by m	Emergency and			Effects of Overexpos	Threshold L	SECTION V
The information contained hearth is furnished without warranty of any tword. Enclosed is reactive material and intervent to some warrant to some warrant to some warrant to some warrant to be an effective or provide the solution of the sol	ad herein is furnished with	0 0.00	Other Precautions Read before using to one wear contain these when withing with chemicals for laboratory use only. Not to drug load or household use. Keep out or reach of children. Avoid contact with eyes and prolonged contact with skin. Remove and wash contaminated clothing.	Ons Read label on For laboratory	losed when not in use.	be Taken	×	Faceshiel	loves	Local Exnaust Mechanical (General)				Waste Disposal Method Discharge, ireatime These disposal gui			case or spilled	IIA	X	May Occur Will Not Occur	non Froducts		Acids and strong oxidizers.		Stable		tion. INHALATIO	at least 15 minuted over contaminated of	outh to an uncon	lures	÷		verexposure	Threshold Limited Value	V
	UD/ 10/UD [AUUIC	05/19/05 4000		container before using. Do r use only. Not for drug, food	Wash thorough	Store in a cool	SPECIAL PRECAUTIONS	d, smock, apron, pr	Rubber.	T	ation hood or wear	SPECIAL P	Dispose of in ac		1			SPILL OR LEAK PROCEDURES						Anide and strong of	× Collonor	REACTIVITY DATA	ATION: Remove to fres medical attention.	es, lifting upper and clothing. Flush thou	vomiting only if scious person. EY		potential hazaro			Concession -	HEALTH H
	nplayers should use this info	ward Jamas	prolonged contact v ated clothing.	nol wear contact tenses wher or household use. Keep out	Wash thoroughly after handling.	day name anala yan		Faceshield, smock, apron, proper gloves, eye wash station.	Eye Pro	Recommended. Other	ventilation hood or wear a NUOSHMSHA-approved dust mask or respirator. ventilation hood or wear a NUOSHMSHA-approved dust mask or respirator.	SPECIAL PROTECTION INFORMATION	Dispose of in accordance with federal, state and local regulations	idelines are intended fo		veep up and place lash spill area with	Sweep up and place Wash spill area with		-	Conditions to Avoid	carbon monoxide, smoke.	I decomposition or	anizai a.	riclizere		TY DATA	h air. If not breathi	i lower eyelids occa roughly with mild so	advised by appropries ES: Check for and	Call physician or Po	potential hazards. Target organs: Liver, kidneys.	peated skin contact	<ul> <li>S: Contact with por</li> </ul>	None established for this product. 1 mg/m <sup>3</sup> as copper (air) (ACGIH, 2001).	HEALTH HAZARD DATA
	mation only as a supplee	A Rortech	with skin.	n working with chemicals t of reach of children.		m acids and acid		ash station.	Eye Protection			I INFORMA	ral, state and loc	or the disposal of ca		soap and water.		EDURES	Not applicable.			burning may proc			Excessive t		ng, give artificial	sionally. Get imi ap and water. If	remove contact	<sup>o</sup> oison Control Ce	Liver, kidneys.	t may cause skin	INHALATION: High dust concentration may cause upper respiratory the initiation. EYES: Contact with powder may cause eye initiation. SKIN:	2001).	A
The $t$ mass set one constants set	ment to other information gathered by	Chemical Safety JAB	r		1 fumes		×	Chemical safety goggles.		sk or respirator.	TION ons prevail, work in	al regulations.	Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only.		Wash spill area with soap and water.	talaat far aronat dianonal					Thermal decomposition or burning may produce carbon dioxide and/or			Excessive temperature and heat.		ATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is medical attention.	with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention. SKIN: Remove contaminated clothing. Flush thoroughly with mild soap and water. If initiation occurs, get	anything by mouth to an unconscious person. <b>EVES:</b> Check for and remove contact lenses. Flush thoroughly	INGESTION: Call physician or Poison Control Center immediately. Induce		Prolonged or repeated skin contact may cause skin inflation. INGESTION: May be berroful if swallowed. Exercise appropriate procedures to minimize	INHALATION: High dust concentration may cause upper respiratory tract	v	BB0085	

## IS4007 BENEDICTS REAGENT, QUALITATIVE IN 50 ML OF WATER

To prepare the solution, place one capsule in about 1/2 the amount of total volume of warm deionized water required in a volumetric flask. Let stand 45 minutes and then mix thoroughly until material is completely dissolved. Add deionized water to the fill line of the volumetric flask, cap the flask and thoroughly mix.

## OR

Place one capsule in about 1/2 the amount of warm deionized water required in a volumetric flask containing a small stir bar. Place the flask on a magnetic stirrer and stir for about 15 minutes or until the capsule material completely dissolves. Remove stir bar and rinse with deionized water, rinsing into the volumetric flask to avoid losing any solution concentrate. Dilute with deionized water to the fill line of the volumetric flask, cap the flask and thoroughly mix.

## Alternative concentrations:

To make: 0.05M solution, dilute to 100 mL final volume 0.2M solution, dilute to 25 mL final volume

Safety Note: Normal safety precautions should always be taken when handling chemicals and chemical solutions, regardless of their packaging. See reverse side of this sheet for safety information.