MATERIAL SAFETY DATA SHEET

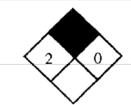
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"W" TEST SOLUTION

Faco INC.	
Quality, Integrity & Dependability Since 1908	3

NFPA HAZARD RATINGS*

Health	[2]	[Moderate Health Hazard]
Fire	[3]	[Highly Combustible]
Reactivity	[0]	[Non reactive]



SECTION 1. PRODUCT INFORMATION				
Manufacturer: ADCO Inc., 900 EMERGENCY TELEPHONE NUM Intended Product Use:	W. Main, Sedalia, MonBERS: CHEMTREC (8) Sing for anionic detergen	O 65301 (816) 826-33 00) 424-9300 24 HRS 7	00	(800) 821-7556 (8-5 M-F)
	SECTION 2. I	HAZARDOUS	INGREDIENTS	
Chemical Name Chloroform	% 91	CAS# 67-66-3	OSHA PEL 10 ppm	LD 50 Oral 1000-2000 mg/kg (rat) Dermal 4000 mg/kg (rabbit) Inhalation 8000 ppm/4 hr. (rat)
Isopropanol	8	67-63-0	400 ppm	Oral 5840 mg/kg (rat) Dermal 13,000 mg/kg (rabbit) Inhalation 12,000 ppm (rat)
	SECTIO	N 3. PHYSICA		1600 E
Odor: slight Specific Gravity (20° C): 1.38	liquid ly sweet - ether like @ 68° F pplicable	Solubili Vapor l	Point: ty in Water: Pressure (mm Hg): are Heavier than Air:	150° F slight 190 @ 68° F
SEC	TION 4. FIRE A	AND EXPLOSI	ON HAZARD DA	ATA*
Flash Point (Method Used): Extinguishing Media: Special Fire Fighting Procedur Unusual Fire and Explosion Ha	es:Cool fire exposed co		ray. Wear self-contained	mit: No Data
		N 5. REACTIV	TTY DATA	
Stability: <u>Stable</u> Condition Incompatibility (materials to a Hazardous Decomposition Property Hazardous Polymerization:	oducts:	Strong oxid	duces toxic fumes.	ot store in aluminum containers.
	SECTION	6. HEALTH HA	ZARD DATA	
Effects of Acute: V Overexposure: 01	ow - LD50 less than 150 apors may cause dizzing skin may cause drying crease mycardial irritation.	ess, nausea, headache and irritation. Exposi	(Estimated) and irritation to the eyes, ure may cause central ner	nose and lungs. Contact with eyes ryous system (CNS) depression and
Chronic: Pr	rolonged exposure may can ome animal studies at high	use liver and kidney dam dose have shown increa	age, CNS depression, low b	blood pressure and rapid heartbeat. s and rabbits and decreased fetal weight.

^{*}Hazard ratings and other information are based on latest available information from tests on product or ingredients of mixtures. The data and evaluations are accurate to the best of ADCO's knowledge. No guarantee or liability is expressed or implied.

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		Y	MSDS WS01
EXPOSURE L MITS	IRRITANCY OF PRODUCT	SENSITIZATION TO PRODUCT	CARCINOGENICITY
Chloroform PEL 10 ppm Isopropanol 400 ppm	No data	None reported	Contains chloroform listed as an A-2 carcinogen
TERATOGENICITY	REPRODUCTIVE TOXICITY	MUTAGENICITY	SYNERGISTIC PRODUCTS
No effects reported	Decreased fetal weights reported in some animal studies	No effects reported	No data

^{*}Based on known toxicity of components. No test data available on mixture.

SECTION 7. PREVENTIVE MEASURES

SPECIAL PROTECTION INFORMATION

Respiratory Protection: None required when used as directed with adequate ventilation.

When cleaning up large spills in confined area, self-contained breathing apparatus is recommended.

Ventilation: Normal industrial ventilation is adequate.

Local exhaust at work station recommended.

Protective Gloves: Ordinarily not needed. Use chemically resistant gloves when contact is prolonged or frequent.

Eye Protection:; Use goggles or face mask if splashing is likely.

Other protection equipment ordinarily not needed. Availability of eye washes and adequate ventilation in work areas recommended.

STORAGE AND HANDLING:

Store in closed containers in cool (below 120° F) well ventilated location. Do NOT store in aluminum containers.

Leave adequate headspace for thermal expansion (at least 10% of container volume).

SPILL OR LEAK PROCEDURES:

Keep from sources of ignition. Small spills - allow to evaporate with adequate ventilation. Soak up the larger

spills on absorbent material and transfer to resealable containers for disposal.

WASTE DISPOSAL METHOD:

Dispose of product on absorbent material containing product, in manner complying with all local, state and

federal regulations for combustibles or chlorinated hydrocarbons.

RECOMMENDED PRECAUTIONARY LABELING:

CAUTION:

Flammable. Keep from heat and open flames. Use with adequate ventilation. Avoid prolonged breathing of vapors. May cause dizziness, nausea, headache and/or irritation to eyes, nose & lungs. Contact with eyes or skin may cause drying & irritation. Harmful if swallowed. Contains chloroform, an A-2 carcinogen.

FIRST AID:

Remove person overcome by vapors to fresh air. In case of contact, flush eyes for 15 minutes with water; wash off of skin. If swallowed, give large amounts of water. Do NOT induce vomiting. Call physician.

KEEP OUT OF REACH OF CHILDREN. DO NOT TAKE INTERNALLY.

This product is intended for professional use only by trained personnel.

SECTION 8. FIRST AID			
Inhalation:	Remove person overcome by vapors to fresh air		
Eyes:	Flush eyes for 15 minutes with water.		
Skin:	Wash skin with water		
Ingestion:	If swallowed: give large amounts of water and do NOT induce vomiting. Call physician.		
	IF SYMPTOMS PERSIST SEEK MEDICAL ASSISTANCE		

SECTION 9. SARA TITLE III

NOTE: This product may contain some components which are under the reporting requirements of SARA Title III, Section 313. If you are required to report discharges using Form R, SARA Title III, Section 313, information is available on amounts of reportable components.

SECTION 10 - PREPARATION DATE

This information is provided for guidance only base	d on information we have compiled. No guarantee	e of accuracy or complete-
ness is expressed or implied.	\bigcap \bigcap \bigcap \bigcap	-

ADCO RESEARCH DEPARTMENT

Date: March 26, 1998

Prepared by: Chulch Jones
Replaces MSDS of: February 10, 1992

MATERIAL SAFETY DATA SHEET

PRODUCT		X SOLUTION FO	P DYANITE 2000 &	Triple Play
	ealth	SHA HAZARI	ealth hazard]	1 0
	re eactivity		Reactive	DOT Class
	SECTION	I. PRODUCT IN	FORMATION	
Manufacturer: ADCO Inc., 9 EMERGENCY TELEPHONE Intended Product Use: Indi	ENITIMBERS CHEN	MTREC (800) 424-9300; onic detergent concentr	ADCO (800) 841-7550	
Synonyms: None	ar onton			
		2. HAZARDOUS		
Chemical Name	%	CAS #	OSHA PEL	LD50
none			<u> </u>	
This ingredient is listed on	Canadian WHMIS a	at 1% level.		
		TION 3. PHYSICA	AL DATA*	
Appearance: Blue solu	tion	Boiling	Point: Not applicable	
Odor: None		Solubi	lity in Water: Soluble	uli-phla
Odor: None Specific Gravity (20° C): pH (Water Solution):	5.1 - 5.4	-	Pressure (mm Hg): Not ar	
S	ECTION 4. FIR	RE AND EXPLOSI	ON HAZARD DATA	*
	None	Upper Flammable Li Lower Flammable Li	mit: N/A	
Flash Point:: Extinguishing Media:Noi	t combustible	Lower Flamunatie En		
Special Fire Fighting Proced	lures: None			
Unusual Fire and Explosion	Hazards: Contain	ns a blue dye. If dissolv	ed in water it may leave a b	lue stain.
	SFC"	TION 5. REACTIV	ZITY DATA	
	SEC			
Stability: Sta	able Condition	ns to Avoid: No sp	ecial conditions	
Incompatibility (materials t	to avoid): Alkalir	ne materials - oxidizing	agent	
Hazardous Decomposition Hazardous Polymerization	Products: None			
	SECTIO	ON 6. HEALTH HA	AZARD DATA	
T			3	stimated.*
Toxicity: Low Effects of Ac Overexposure:	ute: May cau	se very slight	irritation to eye	
Chron	nic: None known			
***		d on latest available inf	ermation from test on produ	ct or ingredients of mixtures.

^{*}Hazard ratings and other information are based on latest available information from test on product or ingredients of mixture. The data and evaluations are accurate to the best of ADCO's knowledge. No guarantee or liability is expressed or implied.

ADCO RESEARCH DEPARTMENT
Date: 5/16/95

pleteness is expressed or implied.

Prepared by: ____S__Keith Ennis ____ Replaces MSDS of: ____

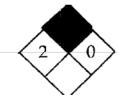
MATERIAL SAFETY DATA SHEET

Y SOLUTION PRODUCT



OSHA HAZARD RATINGS*

| Moderate Health Hazard Health [2] Moderately Combustible [2] Fire Nonreactive



	SECTION	I. PRODUCT IN	FORMATION	
Manufacturer: ADCO Inc., 900	W. Main, Sedalia,	MO 65301 (816) 826-3	300 7 DANG A MEER, ADOO (80	0) 921 7556 (8-5 M-E)
MERGENCY TELEPHONE NUM	MBERS: CHEMTREC	(800) 424-9300 24 HRS 7	DAYS A WEEK; ADCO (80	U) 621-7330 (0-3 M-F)
ntended Product Use: <u>Testin</u> ynonyms: <u>None</u>	g of althorne deterg	State I	Registry# Pending	
ynonyms				
	SECTION 2	. HAZARDOUS	INGREDIENTS	
Chemical Name	%	CAS#	OSHA PEL	LD 50
Isopropyl alcohol	10 - 30	67-63-0	TWA=400 ppm	Orally: 5.8 g/kg (rats)
Ethylene glycol	15 - 40	107-21-1	TWA=50 ppm	Orally: 8540 mg/kg (rats) 1560 mg/kg (humans)
				1560 mg/ kg (numans)
	SECT	ION 3. PHYSICA		
ppearance: Clear liquid		Boiling	Point: 155°F	
odor: Like alcohol		Solubili	ly in Water: Miscible	
pecific Gravity (20° C): 0.893		Vapor I	Pressure (mm Hg): 32 mm	rig
H (Water Solution): 8 - 8.5			are Heavier than Air: No	
SEC	CTION 4. FIRE	AND EXPLOSI	ON HAZARD DATA	4
		Upp	er Flammable Limit: No	Data
lash Point (Method Used): 1	55°F (C.O.C.)	Low	er Flammable Limit: No	Data
vtinguiching Media: Foam,	carbon dioxide, dr	y chemical, water fog		
pecial Fire Fighting Procedure	es: Cool fire expo	sed containers with w	ater spray	
become the regume recount				
	Vanua n	are forms combustible	or avalocive mixtures with	air
	azards: Vapors n	nay form combustible	or explosive mixtures with	air
				air
		ON 5. REACTIV		air
Jnusual Fire and Explosion Ha		ON 5. REACTIV	ITY DATA	air
Jnusual Fire and Explosion Ha	SECTI	ON 5. REACTIV	ITY DATA	air
Inusual Fire and Explosion Ha	SECTI Conditions to Avoid void): Strong or	ON 5. REACTIV d:Storage or use a didizers, strong acids	ITY DATA bove 110° F	air
Inusual Fire and Explosion Habitative Stable Concompatibility (materials to a Hazardous Decomposition Pro	SECTI Conditions to Avoid void): Strong or oducts: Carbon de	ON 5. REACTIV d:Storage or use a didizers, strong acids	ITY DATA bove 110° F	air
Inusual Fire and Explosion Hastability: Stable Concompatibility (materials to a Hazardous Decomposition Pro	SECTI Conditions to Avoid void): Strong oxoducts: Carbon direction directions occur.	ON 5. REACTIV d: _Storage or use a didizers, strong acids loxide, carbon monoxi	ITY DATA bove 110° F de	air
Jnusual Fire and Explosion Ha	SECTI Conditions to Avoid void): Strong oxoducts: Carbon direction directions occur.	ON 5. REACTIV d:Storage or use a didizers, strong acids	ITY DATA bove 110° F de	air
Inusual Fire and Explosion Hastability: Stable Compatibility (materials to a Hazardous Decomposition Pro-	SECTI Conditions to Avoid void): Strong or oducts: Carbon de Will not occur. SECTION	ON 5. REACTIV d: Storage or use a sidizers, strong acids toxide, carbon monoxi 6. HEALTH HA	ITY DATA bove 110° F de ZARD DATA (Estimated)	
Inusual Fire and Explosion Hability: Stable Compatibility (materials to a Hazardous Decomposition Pro-Hazardous Polymerization: Oxicity: Slight ffects of Acute: Conta	SECTI Conditions to Avoid void): Strong oxoducts: Carbon de Will not occur. SECTION ct with eyes or skin	ON 5. REACTIV d: Storage or use a sidizers, strong acids toxide, carbon monoxi 6. HEALTH HA n may cause moderate	ITY DATA bove 110° F de ZARD DATA	
Inusual Fire and Explosion Hastability: Stable Concompatibility (materials to a Hazardous Decomposition Pro-Hazardous Polymerization: Coxicity: Slight Iffects of Acute: Conta	SECTI Conditions to Avoid void): Strong or oducts: Carbon de Will not occur. SECTION	ON 5. REACTIV d: Storage or use a sidizers, strong acids toxide, carbon monoxi 6. HEALTH HA n may cause moderate	ITY DATA bove 110° F de ZARD DATA (Estimated)	
Inusual Fire and Explosion Hastability: Stable Compatibility (materials to a Hazardous Decomposition Pro-Hazardous Polymerization: Oxicity: Slight ffects of Acute: Conta	SECTI Conditions to Avoid void): Strong oxoducts: Carbon de Will not occur. SECTION ct with eyes or skin	ON 5. REACTIV d: Storage or use a sidizers, strong acids toxide, carbon monoxi 6. HEALTH HA n may cause moderate	ITY DATA bove 110° F de ZARD DATA (Estimated)	

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			T SOLUTION
EXPOSURE LIMITS	IRRITANCY OF PRODUCT	SENSITIZATION TO PRODUCT	CARCINOGENICITY
400 ppm TWA isopropyl alcohol 50 ppm TWA ethylene glycol	moderately irritating to eyes and skin	None reported	None reported
TERATOGENICITY Ingestion of ethylene glycol has caused birth defects in	None reported	MUTAGENICITY. None reported	SYNERGISTIC PRODUCTS None reported
animal tests			

Based on known toxicity of components. No test data available on mixture.

SECTION 7. PREVENTIVE MEASURES

SPECIAL PROTECTION INFORMATION

Respiratory Protection: None required when used as directed with adequate ventilation.

When cleaning up large spills in confined area, self-contained breathing apparatus is recommended.

Normal industrial ventilation is adequate. Ventilation:

Local exhaust at work station recommended.

Ordinarily not needed. Use chemically resistant gloves when contact is prolonged or frequent. Protective Gloves:

Use goggles or face mask if splashing is likely. Eve Protection:

Other protection equipment ordinarily not needed. Availability of eye washes and adequate ventilation in work areas recommended.

STORAGE AND HANDLING:

Store in well ventilated area. Store in plastic or lined metal containers. Keep away from heat and open flames.

Store away from strong oxidizers. Protect from moisture.

SPILL OR LEAK PROCEDURES:

Avoid breathing vapors. Keep open flames and ignition sources away.

Flush small amounts to drain with water.

WASTE DISPOSAL METHOD

Liquid product is hazardous waste (combustible). When absorbed on solid material, it is not a hazardous material.

Flush small spills to sewer.

RECOMMENDED PRECAUTIONARY LABELING:

CAUTION:

FIRST AID:

Splashing into eyes or prolonged or repeated contact with skin may cause irritation.

In case of contact, flush eyes 15 minutes with water. Wash off of skin. If swallowed, induce vomiting immediately by giving two glasses of water and pressing finger down throat. Do not give liquids to an unconscious person.

KEEP OUT OF REACH OF CHILDREN. DO NOT TAKE INTERNALLY.

This product is intended for professional use only by trained personnel.

SECTION 8. FIRST AID

Inhalation: Remove person overcome by vapors to fresh air. Administer oxygen if needed.

Eyes: Flush eyes 15 minutes with water.

Skin: Wash off with soap and water.

Ingestion: Induce vomiting immediately as directed by medical personnel.

Do not give liquids to an unconscious person.

IF SYMPTOMS PERSIST SEEK MEDICAL ASSISTANCE

SECTION 9. SARA TITLE III

NOTE: This product contains some components which are under the reporting requirements of SARA Title III, Section 313. If you are required to report discharges using Form R, SARA Title III, Section 313, information is available on amounts of reportable components.

SECTION 10 - PREPARATION DATE

This information is provided for guidance only based on information we have compiled. No guarantee of accuracy or com-

pleteness is expressed or implied.

ADCO RESEARCH DEPARTMENT Date: 8/16/94

Prepared by: 8 - Keich Farms
Replaces MSDS of: 12/10/91