

Superfund Records Center SUTE: Amony Packaging BREAK: 212 OTHER: 596665 SEMS DOCID 596665

TO: Amory Packaging Site File

cc: John Carlson, Response Project Officer Wayne Robinson, On-Scene Coordinator

FROM: Thomas C. Saccoccio, Roy F. Weston Inc., Superfund Technical Assessment and Response Team (START)

MEMORANDUM

- **DATE:** 4 June 1996
- SUBJ: Drum Sampling Assistance Conducted on 13 May 1996 TDD No. 96-05-1005, PCS No. 1516, DC No. R-632

On 13 May 1996, Roy F. Weston Inc., Superfund Technical Assessment and Response Team (START) member Thomas Saccoccio mobilized to the Amory Packaging site located in Clinton, Worcester County, Massachusetts (See Attachment I - Site Location Map). The Massachusetts Department of Environmental Protection (MA DEP) requested EPA assistance in determining the contents of drums abandoned at the facility. START support was requested to provide technical assistance to U.S. Environmental Protection Agency (EPA) On-Scene Coordinator (OSC) Wayne Robinson and EPA representative Alan Peterson in collecting samples from the drums.

At 1000 hours, OSC Robinson, EPA representative Alan Peterson, and START member Saccoccio arrived at the site. START member Saccoccio calibrated air monitoring equipment for use in conducting a perimeter survey of the facility and air monitoring during drum sampling. Air monitoring equipment included an HNU Photoionization Detector (HNU), a Foxboro Organic Vapor Analyzer (OVA), an MSA Passport Combustible Gas/Oxygen/Hydrogen Sulfide/Carbon Monoxide Detector (MSA Passport) and a Micro R Meter. During the calibration, representatives of the MA DEP and the Clinton Fire Department arrived at the site.

OSC Robinson, EPA representative Peterson and START member Saccoccio conducted a perimeter survey of the facility. The facility building was observed to be severely damaged with broken windows, holes in the roof, broken doors and areas which appeared to have been burned. A large steel I-beam was visible from one of the rear garage doors, which appeared to have fallen from the roof and pinned some of the drums inside of the facility. During the perimeter survey, readings of 15 to 25 units above background were observed on the HNU, readings of 1 to 3 units above background were noted on the OVA, and background readings were observed on the MSA Passport and the Micro R meter. A fuel oil odor was noted during portions of the survey. Access to the site was unrestricted.



Following the perimeter survey, OSC Robinson and START member Saccoccio entered the facility in Level B personal protection equipment (PPE) to perform a survey of the building interior. EPA representative Peterson remained on the building exterior. Approximately 100, 55-gallon drums were noted on the interior of the building. Most of the drums were in good condition with some rust present. Air monitoring was conducted during the survey but no readings above background were observed on the instruments. Visual signs of trespassers and holes in the concrete floor of the facility were observed within the building. During the walk-through, approximately 35 drums were checked for contents, and seven were found to contain adequate volume to sample. Due to piled debris, the haphazard staging of some of the drums, and the poor structural integrity of some areas of the building, it was not possible to determine the contents of some of the containers.

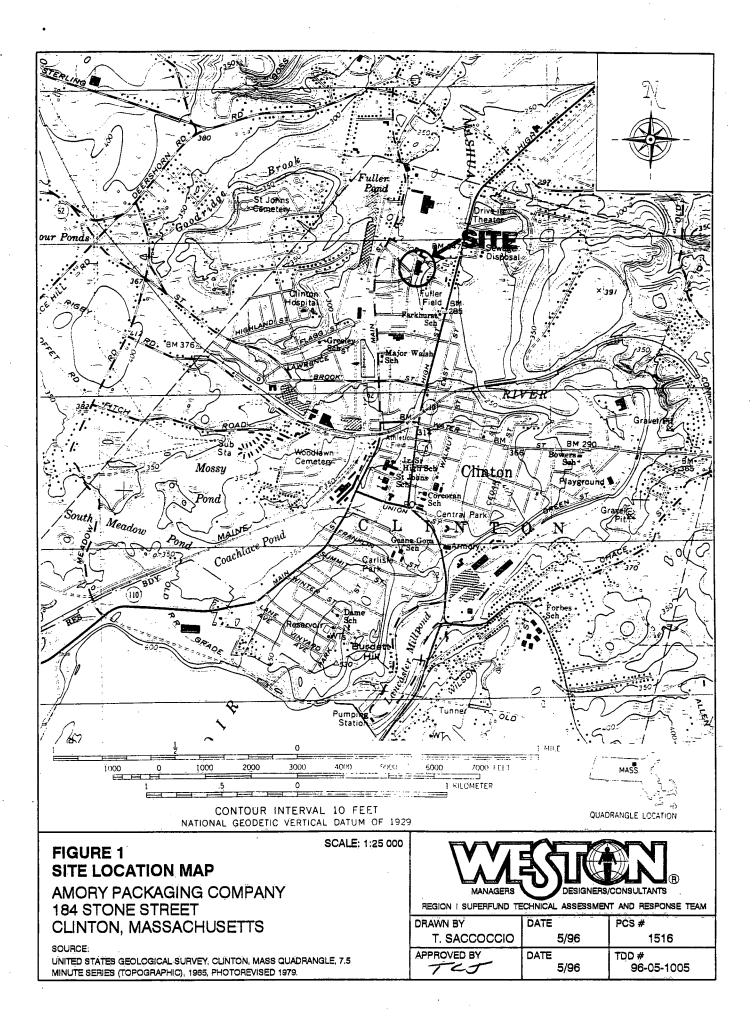
Between 1330 and 1420 hours, a total of six drums were sampled. The drums were designated as sample stations D001 through D006. The first drum (D001) was sampled for flashpoint and volatile organic compound (VOC) analyses. Oil identification (Oil ID.) and polychlorinated biphenyls (PCBs) samples were not collected from the location because the drum was labelled as trichloroethylene, and the contents appeared to be a clear liquid. Samples were collected from sample locations D002 through D006 for VOC, PCBs, flashpoint and Oil ID. analyses. All samples were collected directly from the containers using disposable glass sample rods, which were disposed of in an empty drum in the interior of the facility. No readings above background were obtained with the air monitoring instruments during sampling activities. A seventh drum containing material was laying on its side and was not sampled.

At approximately 1645 hours the chain-of-custody (COC) documentation was completed for the samples and all personnel departed from the site. The samples were stored in sealed paint cans with vermiculite, which were then overpacked in a sealed sample cooler with ice, and locked in the START vehicle.

Samples collected at the Amory Packaging facility were relinquished to the EPA New England Regional Laboratory on 14 May 1996 by START member Saccoccio. COC documentation for the samples is included in Attachment II. The abbreviated sample plan and the health and safety plan for the site activities are included as Attachments III and IV, respectively.

ATTACHMENT I

Site Location Map



ATTACHMENT II

Chain-of-Custody Documentation

ENVIRONMENTAL PROTECTION AGENCY Office of Enforcement	Burk Burk Phone	אין ד. שבאלסה, בהג., START די היולפאנגנג דעיהקאנג היולהקלפה, MA טוצטש היולהקלפה, MA טוצטש שאני (נויד) איז איז (נויד) איז אין	
PROJ. NO. PROJECT NAME Anory PACKAging 184 Stone St. Clinton MA	NO.		·
SAMPLERS: (Signature) (. Samo		RS Solo Dol thru Doas Collected for	
STA. NO. DATE TIME DE TIME DE STATION LOCATION	TAINERS	RS SOLO AND SAMPLES DOOL thru DOGLO COllected for SS-gallon drums in level B PPE.	rom
TB001 5/13/96 6750 X Trip Blank - WALCA	3×40ml	mi EPA SAMPIC * 00789	
DOOI 5/13/941330 Drum Labelled "TCE"-Clear Lig	DYYON	EPA 500790	
DOGO 5/13/46 1345 Drum Sample - Clear, yellow, thick lig	-4×40m	DAL EPA SAMPLE # 00791	
Docis 5/3/961350 Drum Sample-Brownish/Wack oily Lig	, 4 ×40m		
DOOY 3/3/96 1400 X Drum Sample-light brown, oil, Lig. A	1 × 40m	DmlXXXX EFH SAMPLE # 00793	
DO05 5/13/96 1415 Drum Somple Thek bown 14, yellow chu			
DOOG 5/13/46 140 X Drun Sanpk-Clearly unthoily Pho	se 4×40ml	MIXXXX EDA Sample # 007195	
	;		i
Relinquished by: (Signature) Date / Time Received by: (Signature)	ure)	Relinquished by: (Signature) Date / Time Received by: (Signature)	
Relinquished by: (Signature) Date / Time Received by: (Signatu	re)	Relinquished by: (Signature) Date / Time Received by: (Signature)	-
Relinquished by: (Signature) Date / Time Received for Laborat (Signature) Distribution: Original Accompanies Shipment; Copy to Cogrd	alet	Date / Time Remarks asc WAYNE Rubinson JFK Federal Blog (HBR) Baston MA 02203-2011 Files Phone, (GIT)573-9670	

1- 1886

Precautionary Measures Against Hidden Hazards in Laboratory Samples

Notice to Laboratory Personnel

<u>Background</u>

Under the authority of Section 104 of the Comprehensive Environmental Response. Compensation, and Liability Act (CERCLA or Superfund) of 1980, Section 311 of the Clean Water Act, and Subtitle I of the Resource Conservation and Recovery Act (RCRA), EPA has been delegated the responsibility to undertake response actions with respect to the release or potential release of oil, petroleum, or hazardous substances that pose a substantial threat to human health or welfare, or the environment. In addition, EPA provides technical assistance to help mitigate endangerment of the public health, welfare or environment during other emergencies and natural disasters.

EPA's successful implementation of these emergency response action responsibilities requires that technical support capabilities be provided in the form of contracted Technical Assistance Teams (TAT) for each EPA Region. The WESTON TAT Contract 68-W0-0036 provides support to EPA Regions I. II. III. IV. ERT - Edison, and Headquarters - Washington.DC.

Hazard Communication

The samples which accompany this notice have been shipped to your laboratory for analysis in accordance with applicable D.O.T. or IATA Regulations and were collected by the WESTON TAT and were tentatively designated by the field response team as either environmental or hazardous material samples.

In general, *Environmental Samples* are collected from streams, farm ponds, small lakes, wells, and off-site soils that are not reasonably expected to be contaminated with hazardous materials. Samples of on-site soils or water, and materials collected from drums, bulk storage tanks, obviously contaminated ponds, impoundments, lagoons, pools, and leachates from hazardous waste sites are considered *Hazardous Samples*. Samples which are obtained from a known radioactive material contamination site or which demonstrate beta or gamma activity greater than three times average background as scanned with a Geiger-Mueller radiation survey meter are considered *Radioactive Samples*.

The samples which accompany this notice have been tentatively classified by the field response team as:

Environmental	V	Hazardous	Comb. (Envir.& Haz.)	Radioactive
			•	

The field team which collected the samples used the following Level(s) of personal protection as designated by EPA and OSHA conventions to provide protection against possible radiological or chemical exposure:

Level A Level B Level C Level D

This information is intended for use as a guide for the safe handling of these laboratory samples in accordance with EPA and OSHA regulations. The sample classification(s) and Levels of personal protection used by the WESTON TAT are not represented to be, nor are they adequate or applicable in all situations, nor are they intended to serve as substitutes for professional/personal judgement.

This form was prepared by: Thomas C.	JACCORCID 5/13/96
Analytical Services TDD No NA	Date/
WESTON Office: Region I START	Phone: (61) 27-6430 FAX: (6(7) 272-36(9
Laboratory Name: U.S. EPA NET	2L - Samples listed on C.O.C. Form # 1-1886

REGION I	LAB CODE \mathbb{N}^2 00789
PROJECT AMONY PACKAging STATE MA	PROJECT #
COLLECTOR T. SALLOLLO	STATION # TBOO1
FIELD OBSERVATIONS: CLEAR, OVERCAST, RAIN, SNOW, FOG	YYMMDD
AIR TEMP Says TIDE: HIGH, EBB, LOW, FLOOD	DATE 960513
PARAMETERS (CHECK APPROPRIATE)	COLLECTION TIME 0750
Bacti NH3 COD	SAMPLE TEMP °C
BOD NO2+3 PCB TSS TKN X-Ray	PROBE-D.O. (mg/l)
Turb T-P Other Organics O&G	pH - S.U.
VOA'S	CONDUCTIVITY (micromhos/cm)
METALS Total Dissolved	SALINITY (0/00)
Cd Fe Pb Cu Hg Sn	
Cr (T) Mn Zn Cr (+6) Ni Other	SAMPLING DEPTH (ft)
EPA R-1 7500-30 *Unpreserved Sample	· · · · · · · · · · · · · · · · · · ·
r	
U.S. ENVIRONMENTAL PROTECTION AGENCY REGION I	LAB CODE Nº 00790
PROJECT Amon Packaging STATE NUT	PROJECT #
COLLECTOR TSACLOCCIO	
FIELD OBSERVATIONS: CLEAR, OVERCAST, RAIN, SNOW, FOG	YYMMDD
(CIRCLEONE)	DATE 960513
AIR TEMP " GO F TIDE: HIGH, EBB, LOW, FLOOD	
PARAMETERS (CHECK APPROPRIATE) DOL CTCE)	SAMPLE TEMP °C
Bacti NH3 COD BOD NO2+3 PCB TSS TKN X-Ray	PROBE-D.O. (mg/l)
Turb T-P Other Plash point	pH - S.U.
VOA's	CONDUCTIVITY (micromhos/cm)
METALS Total Dissolved	SALINITY (0/00)
Cd Fe Pb Cu Hg Sn	
Cr (T) Mn Zn Cr (+6) Ni Other	
EPA R-1 7500-30 *Unpreserved Sample	

- REGION I	LAB CODE Nº 00791
PROJECT Aman Prckaging STATE MA	
COLLECTOR JACCOCCIO	
FIELD OBSERVATIONS CLEAR, OVERCAST, RAIN, SNOW, FOG	Ү Ү M M D D
(CIRCLEONE)	DATE 960510
AIR TEMP & OF TIDE: HIGH, EBB, LOW, FLOOD	COLLECTION TIME / 3 45
PARAMETERS (CHECK APPROPRIATE)	SAMPLE TEMP °C
Bacti NH3 COD BOD NO2+3 PCB X	PROBE-D.O. (mg/l)
TSS TKN X-Ray Turb T-P Other <u>Oil LD</u>	pH - S.U.
Organics 0&G Flashprine	CONDUCTIVITY (micromhos/cm)
METALS Total Dissolved	SALINITY (0/00)
Cd Fe Pb Cu Hg Sn	
Cr (T) Mn Zn I Cr (+6) Ni Other	SAMPLING DEPTH (ft)
EPA R-1 7500-30 *Unpreserved Sample	
PROJECT <u>AMON PACKOGING</u> STATE <u>MA</u> COLLECTOR <u>T. Saccocio</u> FIELD OBSERVATIONS: CLEAR, OVERCAST, RAIN, SNOW, FOG PARTIAL CLOUDS (CIRCLE ONE)	STATION # DOOS
AIR TEMP TO 60 TIDE: HIGH, EBB, LOW, FLOOD	DATE 9605/3
PARAMETERS (CHECK APPROPRIATE) 4 X40 ml	COLLECTION TIME 7370
Bacti NH3 COD	SAMPLE TEMP °C
BOD NO2+3 PCB X TSS TKN X-Ray	PROBE-D.O. (mg/l)
Turb T-P Other <u>Flosh Point</u> Organics O&G D/T-D	рН - S.U.
VOA's \mathcal{A} \mathcal{O} , \mathcal{T} , \mathcal{D} .	CONDUCTIVITY (micromhos/cm)
METALS Total Dissolved	SALINITY (0/00)
Cd Fe Pb	
	SALINITY (0/00) . TOTAL DEPTH (ft) . SAMPLING DEPTH (ft) .
Cd Fe Pb Cu Hg Sn Cr (T) Mn	

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U.S. ENVIRONMENTAL PROTECTION AGENCY REGION I	LAB CODE Nº 00793
PROJECT Amon Packaging STATE Clinton, MA	PROJECT #
COLLECTOR T. Saccocciu	STATION # D 04
FIELD OBSERVATIONS: CLEAR, OVERCAST, RAIN, SNOW, FOG	YYMMDD
AIR TEMP EFGO TIDE: HIGH, EBB, LOW, FLOOD	DATE 960513
PARAMETERS (CHECK APPROPRIATE)	COLLECTION TIME 1440
Bacti NH3 COD	SAMPLE TEMP °C
BOD NO2+3 PCB 🔀 TSS TKN X-Ray	PROBE-D.O. (mg/l)
Turb Turb Organics VOA's TKN X-Hay Other Flash Point Other	pH - S.U.
	CONDUCTIVITY (micromhos/cm)
METALS Total Dissolved	SALINITY (0/00)
Cd Fe Pb Cu Hg Sn	
Cr (T) Mn Zn Cr (+6) Ni Other	SAMPLING DEPTH (ft)
EPA R-1 7500-30 *Unpreserved Sample	
U.S. ENVIRONMENTAL PROTECTION AGENCY REGION I PROJECT <u>Amon Packaging</u> STATE <u>Clinton</u> , MA COLLECTOR <u>T. Saccoc ci o</u> FIELD OBSERVATIONS: CLEAR, OVERCAST, RAIN, SNOW, FOG	LAB CODE Nº 00794 PROJECT # STATION # Y Y M M D D
REGION I PROJECT <u>AMON Jackoging</u> STATE <u>Clinton</u> , MA COLLECTOR <u>T. Saccoc ci O</u> FIELD OBSERVATIONS: CLEAR, OVERCAST, RAIN, SNOW, FOG PARTIAL CLOUDS (CIRCLE ONE)	
REGION I PROJECT <u>AMON PACKOGING</u> STATE <u>Clinton</u> , MA COLLECTOR <u>T. Saccoc ci O</u> FIELD OBSERVATIONS: CLEAR, OVERCAST, RAIN, SNOW, FOG <u>PARTIAL CLOUDS</u> (CIRCLE ONE) AIR TEMP	PROJECT #
REGION I PROJECT <u>AMON PACKOGING</u> STATE <u>Clinton</u> , <u>MA</u> COLLECTOR <u>T. Saccoc cio</u> FIELD OBSERVATIONS: CLEAR, OVERCAST, RAIN, SNOW, FOG <u>PARTIAL CLOUDS</u> (CIRCLE ONE) AIR TEMP AIR TEMP PARAMETERS (CHECK APPROPRIATE) <u>J×40 mL</u>	PROJECT # STATION # Y Y M M D D DATE ?605/3
REGION I PROJECT AMON Packaging state COLLECTOR T. Saccoc cio FIELD OBSERVATIONS: CLEAR, OVERCAST, RAIN, SNOW, FOG PARTIAL CLOUDS AIR TEMP PARAMETERS (CHECK APPROPRIATE) PARAMETERS (CHECK APPROPRIATE) PARAMETERS (CHECK APPROPRIATE) PARAMETERS (CHECK APPROPRIATE) PCB	PROJECT #
REGION IREGION IPROJECT AMON Ack of a characterization of a chara	PROJECT #
REGION IREGION IPROJECT AMON Packaging state $Clinton, MA$ COLLECTOR $\underline{T. Saccoccid}$ FIELD OBSERVATIONS: CLEAR, OVERCAST, RAIN, SNOW, FOG (CIRCLE ONE)AIR TEMPTIDE: HIGH, EBB, LOW, FLOODPARAMETERS (CHECK APPROPRIATE) $-1 \times 40 \text{ ML}$ BactiN H3 NO2 + 3C OD PCB X-Ray Other $\underline{f.ash}$ Poin f Of / I-D	PROJECT # STATION #OOS Y Y M M D D DATE ? Collection time ???? SAMPLE TEMP °C PROBE-D.O. (mg/l)
REGION I PROJECT <u>AMONY Ackoging</u> STATE <u>Clinton</u> , <u>MA</u> COLLECTOR <u>T. Saccoccio</u> FIELD OBSERVATIONS: CLEAR, OVERCAST, RAIN, SNOW, FOG <u>PARTIAL CLOUD</u> (CIRCLE ONE) AIR TEMP AIR TEMP	PROJECT # STATION #POOS Y Y M M D D DATE ?GOS / 3 COLLECTION TIME / 4/ 3 S SAMPLE TEMP °C PROBE-D.O. (mg/l) pH - S.U
PROJECT AMON fackaging state STATE Clinton, MA COLLECTOR 1. Saccoccio FIELD OBSERVATIONS: CLEAR, OVERCAST, RAIN, SNOW, FOG PARTIAL CLOUDS (CIRCLE ONE) AIR TEMP TIDE: HIGH, EBB, LOW, FLOOD PARAMETERS (CHECK APPROPRIATE) IV YO ML Bacti NH3 COD Bacti NH3 COD TSS TKN X-Ray Turb T-P Other flash Poin f Organics O&G Oiler flash Poin f METALS Total Dissolved Cd Fe Pb Hg Sn Sn	PROJECT # STATION #POOS Y Y M M D D DATE ? 605/3 COLLECTION TIME ???? SAMPLE TEMP °C PROBE-D.O. (mg/l) pH - S.U CONDUCTIVITY
REGION I PROJECT AMON fackaging STATE Clinton, MA COLLECTOR 1. Saccoccio FIELD OBSERVATIONS: CLEAR, OVERCAST, RAIN, SNOW, FOG PARTIAL CLOUDS (CIRCLE ONE) AIR TEMP TIDE: HIGH, EBB, LOW, FLOOD PARAMETERS (CHECK APPROPRIATE) -1×40 ML Bacti NH3 COD BoD NO2+3 COD TSS TKN X-Ray Turb 0&G Other Organics XOA'S Dissolved METALS Total Dissolved	PROJECT # STATION #Poos Y Y M M D D DATE ?eos/3 COLLECTION TIME / ? SAMPLE TEMP °C PROBE-D.O. (mg/l) pH - S.U CONDUCTIVITY (micromhos/cm) SALINITY (0/00)

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	IRONMENTAL PRO REGION I				ode Nº	00795
PROJECT Are or A		ATE CIN 700	7, 7717	PROJE	· · · · · · · · · · · · · · · · · · ·	306
FIELD OBSERVATION	<u>S:</u> CLEAR, OVERCA	AST, RAIN, SNO (CIF	W, FOG RCLEONE)		Y Y M M D 96957	D State
AIR TEMP						1920
PARAMETERS (CHEC Bacti BOD SS	N H 3 N O 2 + 3 T K N	Ч у 40 й СОД РСВ Х-Пау	X	PROBE	E TEMP °C	
fürb Drganics VOA's X	T-P O&G	Other <u>Or</u> Fla	1 F. P. sh Point		U. UCTIVITY nhos/cm)	
METALS	Total	Dissolve Pb 🗍	d	SALIN	ITY (0/00)	
C d C u C r (T) C r- (+6)	Fe Hg Mn Ni	Sn Zn Other	, .		. DEPTH (ft) _ING_DEPTH ((ft)
EPA R-1 7500-30	*Unpreserved \$	Sample				

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ATTACHMENT III

Abbreviated Sample Plan for Emergency Response

				PROJECT INFOR	MATION			
	SIGN NAMB:	Amory Packaging	Amory Packaging TDD# 96-05-1005 PCS#: 1516					
	SITE LOCATION:	184 Stone Street, Clint	on, Worcester	County, MA				
	SITE OR FACILITY:	Same						
	OSC:	Wayne Robinson			· ·	11-		
	START PREPARER:		· ·		START REVIEWER	1 Alto Pro	مەربە	1
		10 May 1996						-
		Determine flashpoint,	identity of oils	- and PCB and VOC	content of materials in	drume abandoned at	facility	
	QA OBJECHTES:	Determine nasuponit,	Includy of ons		Which of materials in	urums avanuonou at	14031117.	-
· ·	LABORATORY:	EPA New England Re	gional Laborat	ory				
					CSUMMARY TAI			
	NUMBER OF	ANALYTICAL	1407 110 49	CONTAINER	PRESERVATIVE	ANALYTICAL METHOD	HOLDING	QA/QC SAMPLES
MATRIX	SAMPLES	PARAMBTER	VOLUMB	40-ml VOA	THUS DE VALLYD			
DR	10	Oil Id.	40-ml	vial	Ice	STD Meth.	None	None
	10	FP	401	40-mi VOA vial	Ice	STD Meth.	None	None
DR	10	VOA	<u>40-ml</u>	40-ml VOA	100	SID Meth.	None	TP (3x40-ml,
DR	10	STD METH	<u>40-ml</u>	vial	Ice	STD Meth.	14 days	organic-free water)
		PCB	40	40-ml VOA	Taa	STD Meth.	14 days	None
DR	10	STD METH	<u>40-ml</u>	vial	Ice	SID Mein.	14 uays	NONC
	•							
	· · ·			h . 1.				
MATRIX	1	· · · · ·	l	<u>.</u>			L	- I
AQ=Aqueou	Liquid, SS=Surface Soil, DS=E	epth Soil, SED = Sediment, D	R=Drum/Contain	er, DW=Drinking Water.	· · · · · · · · · · · · · · · · · · ·		·····	
	ICAL PARAMETERS:			The state of the state				
	issolved Metals, TOT MBT=Tot le Organics, BNA=Semi-Volati							
	L PROTOCOLS/MET				······	,		
SCREEN= B	PA NERL Screening Protocols, (TA=EPA NERL Quick-Tu	marcund Protoco	la,				
	-EPA NERL Standard Method A	nalysis.		<u>.</u>				;
	AMPLES: ipike, MSD=Matrix Spike Duplic	ate, DUP=Duplicate, FB=Fi	eld Blank, TP=Tri	ip Blank.				
				FIELD SAMPLIN	GSUMMARY			
	SAMPLING METHODS:	A total of 10 samples v	will be collected	d from drums utilizin	g disposable glass drum	sample thieves.	·	· .
		· · · · · · · · · · · · · · · · · · ·	·····			·		
:	DECONTAMINATION:	Sampling equipment w	vill be disposab	le, no decontaminati	on necessary. Disposal	ble sample gloves will	be	* • • • •
					between sample station			
-	PACKAGING:	Each 40-ml vial of sa	mple will be pa	cked in a sealed plas	tic bag, then overpacke	d (by drum sampled)	in.	
		scaled paint cans wit						
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ABBREVIATED SAMPLING PLAN FOR EMERGENCY RESPONSE

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ATTACHMENT IV

Health and Safety Plan

	REGION I STAR	T SITE HEAL	THAND SAFETY PLA	N (HASP)			
Prepared by: T	homas C. Saccoccio		W.O. No.: 11098-001-	-001-1516-00	Date: 10 May 1996		
Project Identific Site Name: TDD: 96-05-1005	ation: Amory Packaging		Site History: (describe site is an abandoned facil Massachusetts Department a former packaging plant	ity which was referred t of Environmental F with drums of unknow	t to EPA by the rotection. The site was wn materials remaining		
EPA Contact: Site Address:	Wayne Robinson - EPA OSC in the building. According to the OSC, portions of the facilities 184 Stone Street building are not structurally sound. EPA intends to sample containers Clinton, Worcester County, Massachusetts in the portions of the building which are visually sound, to determine i the site meets the qualifications for a removal actions under CERCLA.						
Scope of Work: (describe briefly) TASK#1 - Conduct a walkthrough of building and perform air monitoring to document conditions. TASK#2 - Collect samples from 10 drums. Samples to be analyzed at NERL for polychlorinated biphenyls (PCBs), flash point, oil identification, and volatile organic compounds (VOCs).							
miles) to Route 110	ite: From the START office, take). Take Route 110 South (\$9 mile aging is located at 184 Stone Stre	s) and turn right o	(≈8 miles) to exit 29 and to onto Allen Street. Follow A	take Route 2 West. 1 Illen Street ≈0.25 mile	Follow Route 2 west (≈20 and turn left onto Stone		
Regulatory Stat	DS:						
Site regulatory stat	tas:	· ·	_				
CERCLA/SARA	S US EPA	State	D NPL:	Site			
RCRA	🗆 US EPA	State					
CLEAN WATER AC	CT 🛛 311	_	. <u></u>				
OSHA	X 1910	□ 1926	Hazar	rd Communication			
Review and Ap	proval Documentation:						
Reviewed by: 7	ho (Sauri	\geq	<u> </u>	Date:	96		
b. P.L.	- in the	····	·····	Date:			
Approved by:	Mular pla	5		Date: 5/10/3	<u>د</u>		
START HSO	·		<u> </u>				
Verbal Approval (E	mergency Response/Modifications)						
Approval by:				Date:	_		
Hazard Assessm	ent and Equipment Selec	tion					
Site Health and Sat equipment selection	WESTON's Personal Protective E fety Coordinator (SHSC) and/or the a outlined within this HASP is app Protection Program for Guidance)	ne Site Manager har ropriate for the har	ave evaluated conditions as	nd verified that the po	ersonal protective		
Project start date:	May 10, 1996	Plan expiration	late: June 7, 1996	<u>Amendments:</u> NA			
End date: June 7,	1996						

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SITE SPECIFIC HAZARDEVALUATION If box is marked a hazard evaluation form/section must be completed. CHEMICALHAZARDS BIOLOGICALHAZARDS RADIATIONHAZARDS PHYSICALHAZARDS PHYSICALHAZARDS

HEALTHAND SAFETY EVALUATION CHEMICALHAZARDS						
□ N/A <u>Chemical</u> <u>Contaminants</u> of <u>Concern</u> List chemical and concentration below and locate data pocket guide, ACGIHTLVbookiet, etc.) of this HASP.	□ N/A <u>Chemicals</u> taken onto Site by WESTON or subcontractors List chemicals (reagent type chemicals, solutions, or other identified materials brought on-site) and quantities below and locate Material Safety Data Sheets (MSDS) in Appendix B of this HASP.					
Chemical Name Concentration (if known) Chemical Name				Quantity		
Unknown	unknown	Isobutylene (calibration gas) Methane (calibration gas) Pentane (calibration gas) Hydrogen (OVAFuel)		≈103 liters ≈103 liters ≈103 liters ≈103 liters < 1 ft ³		
OX	SHA SITE SPECIFIC H	AZARDOUSSUBSTANCES				
The following substances may require spe appropriate citation listed under 29 CFR 1			evaluation of risk.	See the		
1910.1001 Asbestos	1910.1002 Coal far pitch	a volatiles	🗖 1910.1003 4-Nitrobip	henyi		
1910.1004 alpha-Napishylamine	1910.1005 [Reserved]		🛛 1910.1006 Methyl ei	loranethyl ether		
1910.1007 3,3°-Dichlorobenzidine (and its salts).	1910.1008 bie-Chloromet	hyl ether	1910.1009 beta-Naph	thylamine		
1910.1010 Benzidine	1910.1011 4-Aminodiphe	nyi	1910.1012 Ethyleneir	nino		
1910.1013 bets-Propiolactons	1910.1014 2-Acetylamine	fluoreno	1910.1015 4-Dimethy	laminoazobenzene		
1910.1016 N-Nitrosodimethylemine	1910.1017 Vinyl chloride	•	1910.1018 Inorganic	amenic		
1910.1025 Lead	1910.1027 Cadmium		1910.1028 Beazens	(See FLD41)		
1910.1029 Coles oven emissions	1910.1043 Cotton dust		1910,1044 1,2-dibros	ao-3-chioropropune		
1910.1045 Acrylonitrile	1910.1047 Ethylens ouis	le and the second s	1910.1048 Formaldet	īyde		

HEALTHAND SAFETY EVALUATION BIOLOGICAL HAZARDS OF CONCERN DIA								
Decisionous Plants (FLD Task Nos.:) 43)		Insects (FLD 43) Task Nos.:					
Source:	Known	Suspect	Source:	Known	Suspect			
Route of Exposure:	Inhalation	□ Ingestion	Route of Exposure:	Inhalation	Ingestion			
		Direct Penetration	an a	Contact	Direct Penetration			
Snakes, Reptiles (FLD Task Nos.:	43)	· · · ·	Animals (FLD 43) Task Nos.: 1,2		-			
Source:	Known	Suspect	Source:	C Known	Suspect			
Route of Exposure:	Inhalation	Ingestion	Route of Exposure:	Inhalation	□ Ingestion			
	Contact	Direct Penetration	• • •	Contact	Direct Penetration			
FLD43 WESTON Biohaza	ard Field Oper	ating Procedures: Att. OP						
Sewage Task No(s).:		· · ·	Etiologic Agents (List) Task No(s).:					
Source:	Known	Suspect	Source:	Known	Suspect			
Route of Exposure:	Inhalation	Ingestion	Route of Exposure:	Inhalation	Ingestion			
	Contact	Direct Penetration		Contact	Direct Penetration			
Tetanus Vaccination within (see Note #1 below)	Past 7 yrs:			**				
FLD 44 WESTON Bloodborne Pathogens Exposure Control Plan - First Aid Procedures: Att. OP 🖾								
FLD45 -WESTON Bloodb	FLD 45 - WESTON Bloodborne Pathogens Exposure Control Plan - Working with Infectious Waste: Att. OP							
Note #1: A tetanus injection	FLD 45 WESTON Bloodborne Pathogens Exposure Control Plan Working with Infectious Waste: Att. OP Note #1: A tetanus injection is recommended every 10 years for employees with "normal exposure risks." However, if employees have frequent potential for exposure at "higher risk," as working with raw sewage, then a frequency of 7 years is recommended.							

	HEALTHAND SAFETY EVALUATION-RADIATIONHAZARDS OF CONCERN 📓 NA								
NONIONIZING BADIATION									
Task #	Type of Nonionizing Radiation	Source On- site	TLV/PBL	Wavelength Range	Control Measures	Monitoring Instrument	•		
			IC	DNIZING RADIATIO	N				
					AC (µCl/mL)				
Task #	Radionuciido	Major Rediations	Radioactive Haif-Life (Years)	D	W	Y	Surface Contamination Limit	Monitoring Instrument	

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Physical Hazard	Att.OP	Weston OP Titles
Hearing loss/disruption of communication		FLD01 - Noise Protection
Rain/humidity/cold/ice/snow/lightning	8	FLD02 - Inclement Weather
Heat rash/cramps/exhaustion/heat stroke	8	FLD05 - Heat Stress Prevention/Monitoring
Hypothermia/frostbite		FLD06 - Cold Stress
Trench/paddy/immersion foot/edema		FLD07 - Wet Feet
Falls/burns/drowning/engulfment/ electrocution		FLD08 - Confined Space Entry
Thermal burns/impaction/dismemberment		FLD09 - Hot Work
Back strain/abdomen/arm/leg muscle/joint injury		FLD10 - Manual Lifting/Handling Heavy Objects
Vehicle accidents/slips/trips/falls		FLD11 - Rough Terrain
Slips/trips/falls/punctures/cuts/fires		FLD12 - Housekeeping
Crushing/overhead hazards/compromised floors		FLD13 - Structural Integrity
Bodily injury	<u> </u>	FLD14 - Site Security
		FLD15 - Remote Area
		FLD16 - Pressure Systems - Compressed Gases
		FLD19 - Working Over Water
		FLD20 - Traffic
Explosion/fire/thermal burns		FLD21 - Explosives
Crushing/pinch points/overhead hazards electrocution		FLD22 - Heavy Equipment Operation
Overhead hazard/falls/electrocution		FLD25 - Working at Elevation
Overhead hazard/falls/electrocution/slips		FLD26 - Ladders
Crushing/falling/overhead hazards/suffocation		FLD28 - Excavating/Trenching
Back injury/crushing from load shifts		FLD29 - Materials Handling
Explosions/fires from oxidizing, flam./corr.material	8	FLD30 - Hazardous Materials Use/Storage
Fire and explosion		FLD31 - Fire Prevention/Response Plan Required
Fire	8	FLD32 - Fire Extinguishers Required
Overhead/electrocution/slips/trips/falls/fire		FLD33 - Demolition
Electrocution/shock/thermal burns		FLD34 - Utilities
Electrocution/shock/thermal burns		FLD35 - Electrical Safety
Heat Stress/Fires/Burns		FLD36 - Welding/Cutting/Burning
		FLD37 - High Pressure Washers
		FLD38 - Hand and Power Tools
	+	FLD39 - Illumination
lentes ans		1 1007 - HIGHINGOOD
	Hearing loss/disruption of communication Rain/humidity/cold/ice/snow/lightning Heat rash/cramps/exhaustion/heat stroke Hypothermia/frostbite Trench/paddy/immersion foot/edema Falls/burns/drowning/engulfment/ electrocution Thermal burns/impaction/dismemberment Back strain/abdomen/arm/leg muscle/joint injury Vehicle accidents/slips/trips/falls Slips/trips/falls/punctures/cuts/fires Crushing/overhead hazards/compromised floors Bodily injury Slips/trips/falls/back strain/communication Mechanical injury/fire/explosion/suffocation Drowning/frostbite/hypothermia/falls/electrocution Struck by vehicle/collision Explosion/fire/thermal burns Crushing/pinch points/overhead hazards electrocution Overhead hazard/falls/electrocution/slips Crushing/fing/falls/electrocution/slips Crushing/falling/overhead hazards/suffocation Back injury/crushing from load shifts Explosions/fires from oxidizing, flam./corr.material Fire and explosion Fire Electrocution/shock/thermal burns Electrocution/shock/thermal burns	Hearing loss/disruption of communication

- .

(Complete One Sheet for Each Task)	
TASK DESCRIPTION	
Task #1 - Site Walkthrough, initial air monitoring.	tar - Se and r
EQUIPMENT REQUIRED/USED (Be specific, e.g., hand tools, heavy equipment, instruments, PPE)	
PID, FID, CGI/O ₂ /H ₂ S/CO, Radiation Meter PPE: Level D	
Safety shoes, proper uniform, hardhat, and depending on site conditions, nitrile surgical gloves, Tyvek outer garment, and latex overboots (if necessary)	
POTENTIAL HAZARDS/RISKS	
CHEMICAL	
B Hazard Present Risk Level: H B M L	
What Justifies Risk Level? Containerized materials abandoned on site.	
PHYSICAL	
🖾 Hazard Present Risk Level: 🖸 H 🖾 M 🗘 L	
What Justifies Risk Level? Abandoned building, possibly no electrical power for lighting. Structural integrity of portio building is questionable. Hazards will be minimized by use of flashlights and no entry will be made into buildings with structural integrity.	ns of the questionable
BIOLOGICAL	
B Hazard Present Risk Level: CHCM BL	
What Justifies Risk Level? Abandoned site, work activities will be indoors. Possible non-domesticated animals on bu	ilding interio
RADIOLOGICAL	
Hazard Present Risk Level: CH CM 22 L	
What Justifies Risk Level? No record of radiological hazard present, radiation monitoring will be conducted during in	itial entry.
WHAT JUSTIMES KISK LEVEL: NO LECOLD OF LAUTORICAL MAZARD PLCACIN, LAURINON MICHINE WIN DO COMBUSING CALLING IN	in oney.
LEVELS OF PROTECTION/JUSTIFICATION	
Level D PPE to be used based on available. SHSC and EPA On-Scene Coordinator will continually evaluate the situation determine if existing level of protection is adequate.	on to
	le contact v

. . .

	TASK-BY-TASKRISK ASSESSMENT
	(Complete One Sheet for Each Task)
	TASK DESCRIPTION
Task #2 - Drum Sam	pling.
	EQUIPMENT REQUIRED/USED
	(Be spacific, e.g., hand tools, heavy equipment, instruments, PPE)
PID, FID, CGI/O ₂ /H ₂ S PPE: Level B	s/CO, Micro-R
Safety Shoes, Sarane	ex coveralls, nitrile surgical gloves (inner), Silver Shield gloves (mid), nitrile gloves (outer), latex overboots, SCE
hardhat with splash	shield, drum thieves, sorbent pad, bung wrench (non-sparking), flashlight and proper sample containers.
	POTENTIALHAZARDS/RISKS
	CHEMICAL
	Risk Level: BH DM DL
What Justifies Risk	Level? Opening and sampling of containers of unknown materials.
,	
	·
	PHYSICAL
	Risk Level: BH II M IL
building is questional	Level? Abandoned building, possibly no electrical power for lighting. Structural integrity of portions of the ble. Hazards compounded by full-face piece respirator mask and SCBA tank.
	en e
	BIOLOGICAL
Hazard Present	Risk Level: H H M BL
What Justifies Risk	Level? Hazards minimal, no exposed skin during level B PPE sampling.
	and the construction construction of the second of the second second second second second second second second
	RADIOLOGICAL
B Hazard Present	RADIOLOGICAL Risk Level: TH TM BL
Hazard Present What Justifies Risk	
	Risk Level: TH TM BIL Level? No record of radiological hazard present, radiation monitoring will be conducted.
What Justifies Risk	Risk Level: H H M B L Level? No record of radiological hazard present, radiation monitoring will be conducted. LEVELSOF PROTECTION/JUSTIFICATION
What Justifies Risk Level B PPE to be us	Risk Level: H H M B L Level? No record of radiological hazard present, radiation monitoring will be conducted. LEVELSOF PROTECTION/JUSTIFICATION sed based on available data. SHSC and EPA On-Scene Coordinator will continually evaluate the situation to
Level B PPE to be us	Risk Level: H H M B L Level? No record of radiological hazard present, radiation monitoring will be conducted. LEVELSOF PROTECTION/JUSTIFICATION
What Justifies Risk Level B PPE to be us	Risk Level: H H M H L Level? No record of radiological hazard present, radiation monitoring will be conducted. LEVELSOF PROTECTION/JUSTIFICATION sed based on available data. SHSC and EPA On-Scene Coordinator will continually evaluate the situation to
What Justifies Risk Level B PPE to be us	Risk Level: H H M H L Level? No record of radiological hazard present, radiation monitoring will be conducted. LEVELSOF PROTECTION/JUSTIFICATION sed based on available data. SHSC and EPA On-Scene Coordinator will continually evaluate the situation to
What Justifies Risk Level B PPE to be us determine if existing	Risk Level: H H M H L Level? No record of radiological hazard present, radiation monitoring will be conducted. LEVELSOF PROTECTION/JUSTIFICATION sed based on available data. SHSC and EPA On-Scene Coordinator will continually evaluate the situation to

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PERSONNEL PROTECTION PLAN

Engineering Controls

Describe Engineering Controls used as part of Personnel Protection Plan:

NONE

Administrative Controls

Describe Administrative controls used as part of Personnel Protection Plan:

Task(s)

40 Hours training, 8 Hour refresher (as-required), Medical Monitoring SHSC: 8 Hour Supervisor training, field experience, current CPR and 1st Aid.

Personal Protective Equipment

Action Levels for Changing Levels of Protection. Define Action Levels for up or down grade for each task:

Task(s)

Background (BKG) - Level D after initial air monitoring at higher level of protection. > BKG to 5 units above BKG - Level C with continuous air monitoring. > 5 units to 500 units above BKG - Level B 2 units - Level B, no downgrade

	Description of I	evels of Protection	
Level D	Level D Modified	Level C	Level B
Task(s): 1	Task(s): 1	Task(s):	Task(s): 2
🔀 Head - Hard Hat (as appropriate)	🔀 Head - Hard Hat (as appropriate)	Head - Hard Hat (as appropriate)	🔀 Head - Hard Hat (as appropriate)
Eye (Safcty Glasses)	B Eye (Safety Glasses)	Gace (Splash Shield)	E Face (Splash Shield)
Hearing - Ear Plugs (as appropriate)	Hearing - Ear Plugs (as appropriate)	Hearing - Ear Plugs	Hearing - Ear Plugs
Appropriate Uniform	Appropriate Uniform	Appropriate Uniform	Appropriate Uniform
Hand - Gloves (as appropriate)	Coverall (Tyvek)	Coverall (Tyvek)	Coverall (Saranex)
Foot - Safety Boots	Hand -Gloves(inner)(Nitrile surgical)	Hand - Gloves (inner)()	Hand - Gloves (inner)(Nitrile surgical)
🛛 Other (specify) - Latex overboots (as	Hand - Gloves(middle)()	Hand - Gloves (middle)()	Hand - Gloves (middle)(Silvershield)
appropriate)	Hand - Gloves (outer)()	Hand - Gloves (outer)()	Hand - Gloves (outer)(Nitrile)
	E Foot - Safety Boots	G Foot - Safety Boots	B Foot - Safety Boots
	Foot - Over boots(Latex)	Foot - Over boots(Latex)	Foot - Over boots(Latex)
-	Other (specify)()	Respirator (Full Face APR)	SCBA
		Cartridge (GMC-H)	• Other ()
		Other (specify)	
	· · · · · · · · · · · · · · · · · · ·		

SITE OR PROJECT HAZARDMONITORINGPROGRAM								
Direct Reading Air Monitoring Instruments								
Instrument Selection and Initial Check Record								
Reporting Format: Field Logbook Field Data Sheets Air Monitoring Log Trip Report Other								
Instrument	Task No.(s)	Instrument Number	Checked Upon Receipt	Comment	Initials			
CGI/O 2/H 2S/CO	1,2	#1			P			
🛛 RAD	1,2	#12	8		(TCS)			
Micro-R	1,2			•				
Other	· · ·		Ċ					
2 PID	1,2	±3	図		(TLS)			
HNU 10.2								
HNU 11.7 (Intrinsically Safe)	1,2	# 3	X		TUS			
Photovac, Microtip								
				2				
Cother Cother								
⊠ _{FID}								
K FOX 128	1,2	#9	×		(Tes)			
RAM, Mini-RAM, Other								
Monotox								
□н _{\$}								
HCN								
Other:								
DPump - Draeger								
Tubes/type:								
Tubes/type:								
Other								
Other								

SITE AIR MONITORINGPROGRAM

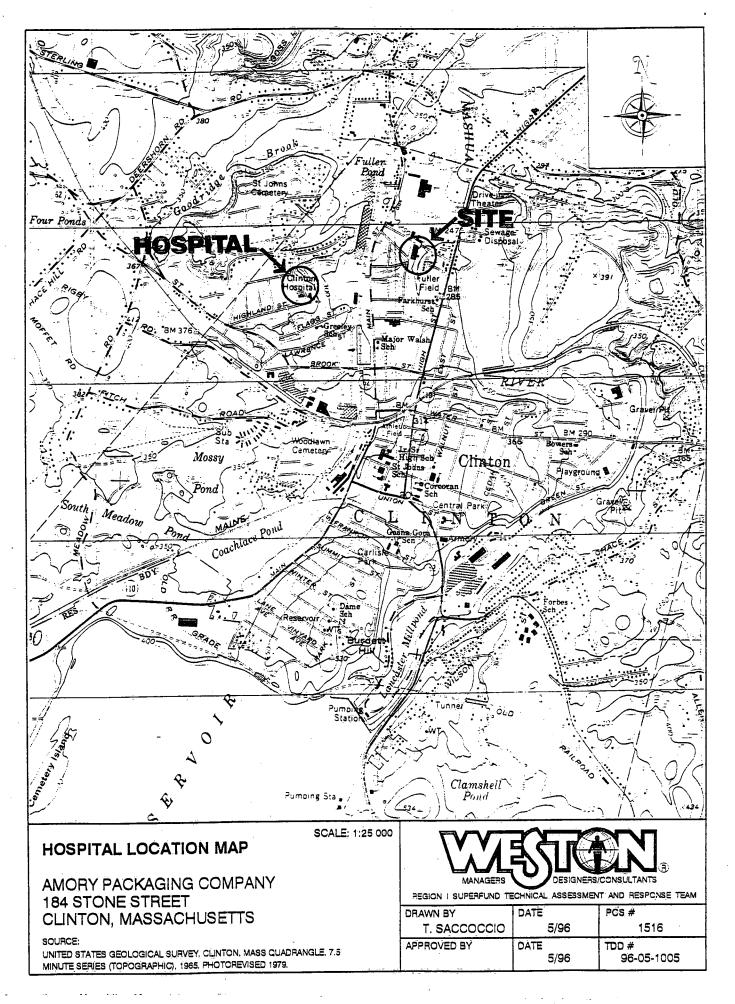
Action Levels					
These Action Levels, if not defined by regulation	on, are some j	percent (usually 50%) of the applicable PEL/REL/TLV. Th	at number must also be adjusted to account for instrument response factors.		
	Tasks	Action Level	Action		
		Ambient Air Concentration			
Ed Explosive atmosphere	1,2				
		<10% LEL	Work may continue. Consider toxicity potential.		
		10 to 25% LEL	Work may continue. Increase monitoring frequency.		
		>25% LEL	Work must stop. Ventilate area before returning.		
Da Oxygen	1,2				
		<19.5% O ₂	Leave Area. Re-enter only with self-contained breathing apparatus.		
		19.5% to 25% O2	Work may continue. Investigate changes from 21%.		
		>25% O ₂	Work must stop. Ventilate area before returning.		
Ed Radiation	1				
	1	< 3 times background	Continue Work		
	******	3 Times Background to < 1 mR/hour	Possible radiation source(s) present. Continue investigation with caution. Perform thorough monitoring. Consult with a Health Physicist.		
**************	• • • • • • • • • • • • • • • • • • •	> 1 mrem/hour	Potential radiation hazard. Continue investigation only upon the advice of Health Physicist.		
🖾 Organic gases and vapors	1,2				
		Background (BKG)	Level D after initial air monitoring at higher level of protection.		
]	> BKG to 5 units above BKG	Level C with continuous air monitoring.		
		< 5 units to 500 units above BKG	Level B		
Inorganics and particulates					
		< 2.5 mg/m ³ (no visible dust)	Level D after monitoring for volatile organics.		
		>2.5 mg/m ³ (visible dust)	Level C		

Note: Action levels listed above do not include confined space entry work.

	SITE SAMPLING ACTIVITIE	3					
Sample Location							
	Locations	Substances Sampled For					
Ambient background	START Office (Initial Calibration) Site support zone	MSA Passport - CGI/O ₂ /H ₂ S/CO OVA, HNU - Organics Micro R/GM - Radiation					
Personal samples							
× NA							
Onsite samples	Ambient air on building interior Breathing zone during drum sampling	MSA Passport - CGI/O ₂ /H ₂ S/CO OVA, HNU - Organics					
	Drüms	Micro-R - Radiation Drum Samples - Oil Id., Flash Point, PCBs, VOAs					
		6 Drum Samples Collected					
Gffsite samples	. .						
X NA							
· · · · · · ·							
Background sample stations		``````````````````````````````````````					
🛛 NA							

		SAMPLIN	GSUMMAR	IYLOG				
	Wo	rk Location	Instrumen	t Readings				
Location:	% LEL	% 0 ₂	PID (mits)	FID (units)	Aerosol Monitor (mg/m ³)	Radiation Meter	Detector Tubes ()	
Building Exterior	0%	20.7 %	0-25	1-2	NA	EIJ MR/	NA	NA
Building Interior	0%	20.7%	0-3	41		Figure		
7								
				·				
	<u>.</u>	•						
			· · · · · · · · · · · · · · · · · · ·				\checkmark	\checkmark

	CONTING	JENCIES	
	Emergency Contacts a	and Phone Numbers	
Agency	Contect		Phone Number
Local Medical Emergency Facility	LMF) Clinton Hos	pital	(508) 365-4531
WESTON Medical Emergency Co	ict EMR - Dr. Elayne	Theriault	1-800-229-3674
WESTON Health and Safety	WESTON Health and Sa	ifety Department (610) 70	1-7406 or (610) 692-3000
Fire Department	Clinton Fire Dep	partment 91	11/(508) 365-4165
Police Department	Clinton Police De	epartment 91	11/(508) 365-4111
Onsite Coordinator	Wayne Robi	nson	(617) 573-9670
Site Telephone	START#	1	(617) 966-8859
Nearest Telephone	NA		NA
Chemtrec			1-800-424-9555
ATSDR			(404) 639-0615
ATF (explosives information)			1-800-424-9555
National Response Center			1-800-942-5969
· · · · · · · · · · · · · · · · · · ·			
	Local Medical Eme	rgency Facility(s)	····
Name of Hospital: Clinton Hospi		<u></u>	
Address: 201 Highland Street Clinton, MA 01510	· · · · · · · · · · · · · · · · · · ·		Phone No.: (508)365-4531
Name of Contact: Joan Bitone (irse Manager)		Phone No.: Same
Type of Service:	outh and at end, turn right onto Plain	it site onto Stone Street. Follow Stone Street. Follow Plain Street to end and	turn ≈5 minutes
 Physical trauma only Chemical exposure only 		ff of Main Street onto Brook Street. Taily Street. Take third right off of Greelyl is located at 201 Highland Street.	
 Exposure only Physical trauma and 			
chemical exposure			Name/No. of 24-hr Ambulance Service:
Available 24 hours			911 Clinton Ambulance
· · · · · · · · · · · · · · · · · · ·	Secondary or Specialty S	Service Provider 🖾 NA	· · · · · · · · · · · · · · · · · · ·
Name of Hospital:			
Address:			Phone No.:
Name of Contact:			Phone No.:
Type of Service:	toute to Hospital (written detail):	· · ·	Travel time from site:
Physical trauma only	· ·	•	Distance to hospital:
Chemical exposure only			Name/No. of 24-br
D Physical trauma and			Ambulance Service:
chemical exposure			



		HEA	LTHAND SAFE	TY EVALUATION-	CHEMICALHAZARDS		
Hazardous Substance/Tasks	Physical Properties	Normal Physical State	State At Site/Proj. Temp.	Characteristics	Exposure Limits	Route(s) of Exposure/ Symptoms	Monitoring Instruments/ Ionization Potential + % Response
UNKOWN	 Explosive Flammable Corrosive Reactive Water Reactive Oxidizer 	□ Solid □ Liquid □ Gas	□ Solid □ Liquid □ Gas	pH: FP: LEL: UEL: Auto. Ig.: BP:	CA PEL TLV DILH Only toxicological data available	 Inhalation Ingestion Skin Absorption Contact Direct Penetration Other: 	□ PID □ 11.7 eV □ 10.2 eV □ OVM □ CGI
CAS No: Synonyms:	Charlos	Incompatible	With:	MP: Sp. Gr.: Vap. D.: Vap. P.:	Other:	Symptoms:	••••••••••••••••••••••••••••••••••••••
				H ₂ O Sol.: Other:			% Response:

ATTACHMENT "A"

CHEMICAL CONTAMINANTS

DATA SHEETS

(Attach appropriate data sheets.)

HEALTHAND SAFETY PLAN APPROVAL/SIGNOFF FORM					
Site Name: Amory Packaging	WO# 11098-011-001-1516-00	•			
Address: 184 Stone Street, Clinton, Worce					
l understand, agree to and will conform w discussed in the Personnel Health and Safe	with the information set forth in this Health and Safety sty briefing(s).	Plan (and attachments) and			
Name	Signature	Date			
Thomas C. Saccoccio	This (. Same	5/13/96			
Alan Peterson	Clan fitteren	5/13/86			
Wayne M. Robinson	Way MJZ	5/13/96			
·	,	<u> </u>			
		<u></u>			
<u> </u>					
		. <u></u>			
	• .				

R:\96051005\1516HASP.PLN

SITE PERSONNEL AND CERTIFICATIONSTATUS							
WESTON							
Name: Thomas C. Saccoccio Title: Environmental Engineer Task(s): 1,2 Certification Level or Description: B-	S .	Name: Wayne Robinson Title: EPA On-Scene Coordinator Task(s): 1,2 Certification Level or Description:					
Modical Current	Training Current	Medical Current	Training Current				
Fit Test Current (Qual.)	Fit Test Current (Quant.)	Fit Tost Current (Qual.)	Fit Test Current (Quant.)				
Name: Alan Peterson Title: EPA Site Investigator Task(s): 1,2 Certification Level or Description:		Name: Title: Task(s): Certification Level or Descripti	on:				
Medical Current	Training Current	Medical Current	Training Current				
Fit Test Current (Qual.)	Fit Test Current (Quant.)	Fit Test Current (Qual.)	Fit Test Current (Quant.)				
Name: Title: Task(s): Certification Level or Description:		Name: Title: Task(s): Certification Level or Descripti	on:				
Modical Current	Training Current	Medical Current	Training Current				
Fit Test Current (Qual.)	Fit Test Current (Quant.)	Fit Tost Current (Qual.)	Fit Test Current (Quant.)				

TRAINING CURRENT - Training: All personnel, including visitors, entering the exclusion or contamination reduction zones must have certifications of completion of training in accordance with OSHA 29 CFR 1910, 29 CFR 1926 or 29 CFR 1910.120.

FIT TEST CURRENT - Respirator Fit Testing: All persons, including visitors, entering any area requiring the use or potential use of any negative pressure respirator must have had as a minimum, a qualitative fit test, administered in accordance with OSHA 29 CFR 1910.134 or ANSI within the last 12 months. If site conditions require the use of a full face negative pressure, air purifying respirator for protection from Asbestos or Lead, employees must have had a quantitative fit test, administered according to OSHA 29 CFR 1910.1001 or 1025 within the last 6 months.

MEDICAL CURRENT - Medical Monitoring Requirements: All personnel, including visitors, ontering the exclusion or contamination reduction zones must be certified as medically fit to work, and to wear a respirator, if spinopriate, in accordance with 29 CFR 1910, 29 CFR 1926/1910 or 29 CFR 1910.120.

The Site Health and Safety Coordinator is responsible for verifying all certifications and fit tests.

SITE SPECIFIC HEALTHAND SAFETY PERSONNEL

The Site Health and Safety Coordinator (SHSC) for activities to be conducted at this site is: Thomas C. Saccoccio.

The SHSC has total responsibility for ensuring that the provisions of this Site HASP are adequate and implemented in the field.

Changing field conditions may require decisions to be made concerning adequate protection programs. Therefore, the personnel assigned as SHSCs are experienced and meet the additional training requirements specified by OSHA in 29 CFR 1910.120

Qualifications:

40 Hour OSHA Training

8 Hour Refresher Training

8 Hour Site Safety Coord. Training

Extensive field experience

Non-rescue Confined Space Training

Designated alternates include:

DECONTAMINATIONPLAN
Personnel Decontamination
Levels of Protection Required for Decontamination Personnel
The levels of protection required for personnel assisting with decontamination will be: (One level of protection lower than site activities)
Level B Evel C Evel D
Modifications include:
Equipment Decontamination
Decontamination procedure required for site personnel:
Dry decon
Wet decon - Level C and Level B activities (as required)
Wash boots and gloves
Remove outer boots
Remove outer gloves
Sampling Equipment Decontamination
Sampling equipment will be decontaminated in accordance with the following procedure:
□ Not applicable disposable sampling equipment.
X Wash with soap and water
Rinse with distilled water
Rinse with isopropanol
Rinse with methanol
Disposition of PPE and Decontamination Wastes
Provide a description of waste disposition including identification of storage area, hauler, and final disposal site, if applicable:
PPE and decontamination fluids to be disposed of in an appropriate manner as determined by contaminate and degree of contamination.

CONTINGENCY						
Response Plans						
Medical - General						
Provide First Aid as trained, assess and determine need for further medical assistance. Transport or arrange for transport after decontamination.						
First Aid Kit required:	Type - Standard field including bloodborne pathogen kit	Location - START vehicle or command post	Special First Aid Procedures: Cyanides on site			
Yes			D Yes 20 No.			
			If yes, contact LMF. Do they have antidote kit?			
			U Yes D No			
Eyewash required	Туре	Location	Hydrogen Fluoride on site			
Yes 🛛 No			□ Yes ⊠ No. If yes, need neutralizing ointment for First Aid kit. Contact LMF.			
Shower required	Турс	Location				
Spills: In the event of a spill or release, ensure safety, assess situation and perform containment and control measures as appropriate:	 a. If small spill, clean up per MSDS; Notify Emergency Coordinator. b. If large spill, Sound Alarm; Notify Emergency Coordinator. c. Evaluate to pre-determined safe place. d. Account for all personnel. e. Determine if Team can respond safely. 	Spill Response Equipment (Type)	Location			
Fire/Explosion: In the event of a fire or explosion, ensure personal safety, assess situation and perform containment and control measures as appropriate:	 a. Sound Alarm and call assistance, Notify Emergency Coordinator b. Evacuate to predetermined safe place c. Account for personnel d. Use fire extinguisher, only if safe and trained e. Standby to inform Emergency responders of materials and conditions 	Fire Extinguisher (Type)	Location - START vehicle or command post, within 50 feet of drum sampling activities.			
Security Problems: Contact local police if not alread	ly on-site.	· ·				

ATTACHMENT "B"

MATERIAL SAFETY DATA SHEETS

(MSDS)

Scott Specialty Gases

ROUTE 611 NORTH. PLUMSTEADVILLE PA 18949 (215) 756-8861

Electronics Group

2330 HAMILTON BOULEVARD. P.O. BOX 648, SOUTH PLAINFIELD. N.J. 07080 (201) 754-7700

REGIONAL PHONE NUMBERS

PA (215) 766-8861 CA (714) 887-2571 ML(313) 589-2950 .* TX (7.13) 644-4820 ***** NJ (201) 754-7700 .* CA (415) 659-0162 ** CD (303) 442-4700 *** MA (617) 245-8707 *****

MATERIAL SAFETY DATA SHEET

SEGMONIE-MANDERFIELDEREDIGATION

CHEMICAL NAME: Isobutyione in Air

SUPPLIER: Scott Specialty Gases, Inc.

ADDRESS: 2330 Hamilton Blvd_ South Plainfield, NJ 07080

CHEMICAL FORMULA: CIH10/Air

CHEMICAL FAMILY: Alkene in gas mixture In Case of Emergency, call (908) 754-7700

DATE PREPARED: 4/23/92

OTHER DESIGNATIONS: None

SECTION II-HAZARDOUSINGREDIEN IS

		EXPOSURE LIMITS (PPM)			
COMPONENT	CAS #	CONCENTRATION	ACGIH TLV	OSHA PEL	OTHER
Isobutyiene Air	11 5- 11-7 25635-88-5	100 ppm Balance	None estat		
SECTIONILLEPER	AIGALDATA			* *** ***	
BOILING POINT (°C	5: -194.4	SPECIFIC GRAVITY (I	H ₂ O = I) @ 20°C	: 0.88	
VAPOR PRESSURE	@ 20°C: N/A	PERCENT. VOLATILE	BY VOLUME (5): 100%	
VAPOR DENSITY (AIR = 1: 1.2 kg/m ³	EVAPORATION RATE	(= 1): N/A	À	
SOLUBILITY IN WA	ATER 20°C: Insoluble	APPEARANCE AND O slight olefinic odor.	DOR: Coloriess g	as with a pos	sible

SECTION IV FIREAND EXPLOSION HAZARD DATA FLASH POINT AND METHOD FLAMMABLE LIMITS LEL UEL Nonflammapic N/A VIA VIA VIA

EXTINGUISHING MEDIA: Use what is appropriate for surrounding fire

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-communed breathing apparatus and full protective elothing. Use water sorry to keep the exposed cylinders cool.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Compressed for at high pressures will accepterate the burning of flammable materials.

SECHON V REACHAILEDAL

STABILITY: Stable under normal storage conditions.

INCOMPATIBILITY (MATERIALS TO AVOID): None

HAZARDOUS DECOMPOSITION PRODUCTS: None

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION IV HEALTH HAZARD DATA

ROUTES OF ENTRY: Inhalation

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EFFECTS OF OVEREXPOSURE: (ACUTE): The concentration of isobutylene in this mixture should not present any symptoms of toxicity. (CHRONIC): None (MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE): None

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CARCINOGENICITY - NTP? NO. IARC MONOGRAPHS? NO. OSHA REGULATED? NO.

EMERGENCY AND FIRST AID: Inhalation - Immediately remove victim to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen.

SECTION VIL-SPIELOR LEAK PROCEDURES

STEPS TO BE TAKEN: Evacuate and ventilate area. Remove leaking cylinder to exhaust hood or safe outdoors are if this can be done safely.

WASTE DISPOSAL METHOD: Return cylinders to supplier for proper disposal with any valve outlet plugs or caps secured and valve protection cap in place. Allow gas to discharge at a slow rate to the atmosphere in an unconfined area or exhaust hood.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (SPECIFY TYPE): Use a self-contained breathing apparatus in case of emergency or non-routine use.

VENTILATION: Provide adequate general and local exhaust ventilation.

OTHER PROTECTIVE EQUIPMENT: Wear safety goggies, rubber gloves, and safety shoes. A safety shower and eyewash station should be readily available.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING. Store in well ventilated areas only. Keep valve protection cap on cylinders when not in use and secure cylinder when using to protect from falling. Use suitable hand truck to move cylinders.

OTHER PRECAUTIONS: Protect containers from physical damage. Do not deface cylinders or labels. Move cylinder with adequate hang truck. Cylinder should be refulled by quantied producers of compressed gases. Shipment of a compressed gase cylinder which has not been tilled by the owner or with his written consent is a solution of federal law (49 CFR).

				1	NG .	440	
MATERIAL SAFETY	DATA SH	HEET			Milton	ANE	
GENIUM PUBLISHING (1145 CATALYN	STREET						
SCHENECTADY. NY 12 (518) 377-88	355		Contra Printipa		Data	July 1	980
SECTION I. MATERIAL I	DENTIFICATI	ON			n i i		
MATERIAL NAME: METHANE DESCRIPTION: COMPRESSED OTHER DESIGNATIONS: CH4,	gas (2265 psig Machyl Hydric	r) in cyl	inders. Gas, Natur:	al Gas, C	100 ZL	0 074 8	28
MANUFACTURER: Available Air Products & Chemi	cals Inc. All	CO Indu	ETIAL Gases	Inton C	arolde 17., S	Corp.	s
23320 S. Alameda Str Long Beach, Cl 90810		TRY HILL	NY 07974	270 Par New Yor	r, H	10017	
(213) 830-5200		1) 464-4	100	(212) 5			
SECTION II. INGREDIEN	TS AND HAZA	RDS		% 93 min#			
Mernane Typical Impuriries: (See	ASTH D1945 for	- machod	of analysis		ليشتد	s obyay.	
Echane				<4		2 15927	
Propane				<1 <0.4		2 850077	
Butanes CxH2x+2 (x=5 and abov	ve)			<0.1 <0.7			
Carbon dioxide Nitrogen				<0.6			
O.m.oon			1	<0.1			
*"Commercial" methane or trace of mercaptan may				ied			1
trace of mercaptan may methane is >99% CH, w ATThe TLY (ACGIH, 1979) r of 19% by wolume in w	ich very low i equires a mini priviace air a	murity mal oxyg	levels. en concent			2000 - 2000 - 2000 - 2000 - 2000	
SECTION III. PHYSICAL	DATA					•	
		5 0	167	C lient	1 9/0	(1.43
Boiling point at 1 atm, de Gritical temperature, deg Critical pressure, atm - Specific gravity, cas (Air	c = -161 c = -32.	I Free Mole	steless gas	(Unless (deg C	; ; zn. adds	0.43 -182.5 16.04 ed to
Boiling point at 1 atm, de Gritical temperature, deg Gritical pressure, atm - Specific gravity, gas (Ai	c = -161 c = -32.	I Free Mole	zing point a cular weight	(Unless (deg C	an adds i contat	-182.6 16.04 ed to Laets.
Boling point at 1 atm, de Grizical temperature, deg Crizical pressure, atm - Specific gravity, gas (Ai Appearance & Odor: Color odorize). Also has been	eg C161 C32. 45.8 r=1) 0.55 rlass, odorles n shipped and EXPLOSION D.	i Free Mole as and ta handled	zing point a cular weight steless gas as cold liqu	(Unless the set of the	deg C mercaph sulated	; ; zn. adds	-182.6 16.04 ed to Laets.
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SECTION VI. HEALTH HAZARD INFORMATION	TLV Simple Asphyziant (See Sect. M
Methane is non-coric. nowaver, it can act as displacing the air required to support life. atmospheres become cyanotic, experience dimin cular coordination, and dyspnes. Collapse at levels. Contact with liqueried methane can FIRST AID: Contact of liquid with skin: Remove victim of taple water. Do not apply direct heat dressings to protect area from infaction/i Inhalation: Remove to fresh air. Quickly r quired; nave trained person administer oxy resucitation should be used <u>immediately</u> fo Get medical help.	ished mencal alertness and impaired mus- und death can occur at very low oxygen produce freeze burns. from contact. Flush affact area with lots to area. Loosely apply dry starile, bulky injury. Get medical heip. restore and/or support breathing as re-
SECTION VII. SPILL, LEAK, AND DISPOSA	AL PROCEDURES
Notify safety personnel. Evacuate area. Prov Shut off methane source if possible. Remove s Minor leaks can be located by painting suspe Never use a flame to detect leaks. <u>DISPOSAL</u> : Remove leaking cylinder to isolated adequate forced ventilation. Keep concentra tion. Allow gas to discharge at controlled, cylinders tagged to indicate defect. Close	i area ourdoors or place into a hood with trion of gas below 25% of LEL by ventila-
SECTION VIII. SPECIAL PROTECTION INFO	RMATION
Provide adequate general and local exhaust ven place accospheres from reaching 25% of LTL. with nitrogen pressure before use. especially tion to ventilation for enclosed areas. Provide air supplied or self-contained breathing situations where methane level is excessive.	The use of cartridge or canister res-
piracors may result in surrocation Safaty shield, gloves, glasses and safaty shoe	a are recommended with mandaray of the
SECTION IX. SPECIAL PRECAUTIONS AND C	CMMENTS
Store cylinders in a well-ventiled. low fire-represented. Kaep cylinders away from oxidizing Frotect cylinders against physical damage. For temperature above 125 F. Cround all lines and equipment used with methan sparking tools. No Smoking where methane is A 197 oxygen concentration in the air is the magnetic breathing equipment. (Air/methane a EATA SCURCE(S) CODE: 2.4-11.17-13.23.25	Tisk area. Outdoor or derached storage ing agents and sources of heat or ignition follow generil safety procedures for hand- No part of a cylinder should be exposed ine co prevent static sparks. Use non- used or stored. Initian recommended for working Without it 19% oxygen is near the LTL.)
L'ARTIN D'ARTING D'AR	APPROVALS: GRD 9 Mill 9 Industrial Hygiene 9 7-25-20 MEDICAL REVIEWED 5 August 1980

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From Genium's Refere Genium Publishing Cor	DOLADOB		73		TANE on A)	
1145 Catalyn St Schenectady, NY 12303- (518) 377-8855	-1836 USA				October 198 i: August 19	-
SECTION I. MATE	RIAL IDENTIFICATION			gres e	~	×- ~23
Found in petroleum and is a c OTHER DESIGNATIONS: A	ANE ; Prepared by dehydration and subseq constiment of perroletim ether. Used at Amyt Hydride; C ₅ H ₁₂ ; NIOSH RTEC	s an industrial solv	a of 2- and 3-g ent.	entano	L	
CAS #0109-66-0		•			HMIS	•
MANUFACIURER/SUPPLIE Ashland Chemical Co., Industr Columnus, OH 43216; Telepi	R: Available from several suppliers, i rial Chemicals & Solvents Division, F ring: (614) 889-3844	incinding: PO Bax 2219,			H 1 F 4	RI I-
	serious fire and explosion hazard.	· · · ·			R 0 PPE* *See sect. 8	S 1 K 4
SECTION 2 INGRE	DIENTS AND HAZARDS	5	%	HA2	LARD DAT	
n-Pentane, CAS #0109-66-0;	NIOSH RTECS #RZ9450000		>99	T	OXICITY DATA	
				30000	· · · · · · · · · · · · · · · · · · ·	•
$H_3C - CH_2 - CH_2$	$2 - CH_2 - CH_3$, ¹	9	0000 p	pm/5 Min. Intravenous, LD	
NIOSH REL 1986 10-Hr TWA: 120 ppm, 350 m	grm ³		· · ·	146 mg/		50-
15-Min Ceiling: 610 ppm, 180 Current OSHA PEL-TWA: 10 The 1987-38 ACGiH TLVs ar	0 mg/m ² 00 ppm (2950 mg/m ³). z TWA = 600 ppm (1800 mg/m ³)		I.	DLH•	Lavei: 15000 ppr	1
and STEL = 750 ppm (2250 m *Immediately dangerous to life	e and health		<u> </u>			
SECTION 3. PHYSI				*		****
Boiling Point 97'F (36.1°C) Vapor Pressure 400 Torr at	65.3TF (18.5 [°] C)	•.	ific Gravity ing Point2		u 68°F (20°C) 130°C)	
Vapor Density (Air = 1) - 25			oration Rate (i		= 1) 28.6	
Solubility in Water 0.04% at Viscosity 0.43 at 32°F (0°C)			tiles, % 100 cuiar Weight .		Grams/Mole	
Appearance and odor. Clear, o	coloriess, mobile liquid. Mild gasoline th vapor density, volatility, and evapor	like odor. Thresh	old odor couce	202000	: 50%	. *
concentrations of vapor.		·				
SECTION 4. FIRE A	IND EXPLOSION DATA	an a s a ka rata		<u> </u>	OWER U	PPER
Flash Point and Method	Autoignition Temperature	Flammability	<u>Limits in Air</u> Volume		1.5%	7.8%
EXTINCUISHING MEDIA- U	lse caroon dioxide, dry chemical, or fo will spread flames: but a water spray	should be used to a	coni fire-expos	eri cont	ainers 10 orevent	
n-penune, and a water stream pressure rupture. Also, water st liquid is a dangerous fure hazar <u>EXPLOSION HAZARDS</u> : The ignition and then tlash back to an OSHA class IA flaramable demana or other positive-press	oray may be used to flush spills away d and a dangerous explosion hazard. I heavier-than-air vapors of <i>n</i> -pentane the original source of the material. liquid. Wear 3 self-contained breathin ure mode. This material is expressely	from exposures to Fight fire from a si may travel along ! SPECIAL FIRE.F	ife distance. J ow-lying surfa IGHTING PRO		AL FIRE/ istant sources of IRES: n-Pentane	is
n-pentine, and a water stream pressure rupture. Also, water st liquid is a dangerous fure hazar <u>EXPLOSION HAZARDS</u> : The ignition and them flash back to an OSHA class iA flammable demand or other positive-pressu flashbacks.	pray may be used to flush spills away id and a dangerous explosion hazard. Is heavier-than-air Vapors of n-pentane the original source of the material liquid. Wear 3 self-contained breathing ure mode. This material is extremely	from exposures to Fight fire from a si may travel along ! SPECIAL FIRE.F	afe distance. J ow-lving surfa IGHTING PRO TUIL facepiece ise due caution		AL FIRE/ istant sources of IRES: n-Pentane	is
n-penune, and a water stream pressure rupture. Also, water st liquid is a dangerous fure hazar <u>EXPLOSION HAZARDS</u> : The ignition and then tlash back to an OSHA class IA flaramable demana or other positive-press	oray may oe used to flush spills away id and a dangerous explosion hazard. theavier-than-air vapors of <i>n</i> -pentane the original source of the material liquid. Wear a self-contained breathing ure mode. This material is expressely TIVITY DATA	from exposures to Fight fire from a si may ravei along ! SPECIAL ERE.F g ipparatus with a flammaoie. Exerc	afe distance. J ow-lving surfa IGHTING PRO TUIL facepiece ise due caution		AL FIRE/ istint sources of <u>IRSS</u> : n-Pentane 1 in a pressure- teet against	2
A-pentane, and a water stream of pressure rupture. Also, water sy liquid is a dangerous fire hazar sy liquid is a dangerous fire hazar sy liquid on the hazar sy liquid of the hazar sy	oray may oe used to flush spills away id and a dangerous explosion hazard. theavier-than-air vapors of <i>n</i> -pentane the original source of the material liquid. Wear a self-contained breathing ure mode. This material is expressely TIVITY DATA	from exposures to Fight fire from a si may travei along ! SPECIAL FIRE-F g ipparatus with a flammaoie. Exert	afe distance. I pow-iving surfa ICHTING PRI rull facepiece ise due caution		AL FIRE/ istint sources of <u>IRSS</u> : n-Pentane 1 in a pressure- teet against	2
A-pentane, and a water stream pressure rupture. Also, water st liquid is a dangerous fure hazar <u>EXPLOSION HAZARDS</u> : The ignitude and then thas back to an OSHA class IA flaramable demma or other positive-press flashbacks. <u>SECTION 5. REACT</u> A-Pentane is stable. Hazardous CHEMICAL INCOMPATIBIL	pray may oe used to flush spills away id and a dangerous explosion hazard. Is heavier-than-air vapors of <i>n</i> -pentane the original source of the material liquid. Wear a self-contained breathing ure mode. This material is extremely TIVITY DATA s polymerization connot occur.	hom exposures to Fight fire from a si- may travel along ! SPECIAL ERE-F gipparatis with a flammable. Exerc	ife distance. I pw-lving suffa IGHTING PRI rull facepiece ise due caution		AL FIRE istint sources of <u>RES</u> : <i>n</i> -Pentane : n a pressure- text against	
n-pentane, and a water stream pressure runture. Also, water st liquid is a dangerous fure hazar <u>EYPI OSION HAZARDS</u> : The ignition and then flash back to an OSHA class IA flammable demand or other positive-press flashbacks. <u>SECTION 5. REACT</u> <i>n</i> -Pentane is stable. Hazartous CHEMICAL INCOMPATIBIL CONDITIONS TO AVCID: A	pray may de used to flush spills away rd and a dangerous explosion hazard. Is heavier-than-air vapors of n-pentane the original source of the material liquid. Wear a self-contained breathing ure mode. This material is extremely TIVITY DATA S polymerication connot occur.	from exposures to Fight fire from a si- may travel along ! <u>SPECIAL EIRE-F</u> ipparatis with a flammaoie. Exert th oxidizing igents s, excessive heat, o	ife distance. I pw-lving suffa IGHTING PRI rull facepiece ise due caution		AL FIRE istint sources of <u>RES</u> : <i>n</i> -Pentane : n a pressure- text against	

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No. 523 8/87 A-PENTANE

SECTION 6. HEALTH HAZARD INFORMATION

n-Pentane is not listed as a carcinogen by the NTP, LARC, or OSHA.

SUMMARY OF RISKS: Vapors of this material are mildly varcotic and may cause initiation to the respiratory passages. (It has been reported that human exposures at 5000 ppm for 10 minutes did not cause muccous membrane initiation.) Extremely high and sustained concentrations may cause central nervous system depression and narcosis. This material is a defatting agent; repeated or prolonged skin contact with its liquid may result in drying, cracking, and derinatitis. Eye contact can be initiating. Swallowed liquid can vaporize (BP 97F [36.1°C]) in the traches. Aspiration into the lungs will cause dilution of alveolar air (aspinyziation hazard). TARGET ORGANS: Eyes, skin, repriratory system. PRIMARY ENTRY: Inhalation. ACUTE EFFECTS: Eyes, skin, and respiratory tract initiation; and possibly central nervous system depression. CHRONIC EFFECTS: Unknown. MEDICAL CONDITIONS AGGRAVATED BY LONG-TERM EXPOSURE: None reported. EIRST AID: EYE CONTACT: Immediately flush eyes, including under the cyclids, gently but thoroughly with plenty of running water for at least 15 minutes. Get medical help.⁴ . SKIN CONTACT: Remove victim to fresh air. Restore and/or support his breathing as required. Get medical help.⁴ . INGESTION: Do not induce vomiting. Never give anything by mouth to someone who is unconscious or convulsing. Get medical help.⁴

• GET MEDICAL ASSISTANCE = IN PLANT, PARAMEDIC, COMMUNITY. Get medical help for further reasonest, observation, and support after first aid.

SECTION 7. SPILL. LEAK. AND DISPOSAL PROCEDURES

SPILLA EAK: Notify safety personnel of n-pentane spills or leaks. If a spill or leak has not ignited, use water spray to disperse the gas or vapor and to protect those who are attempting to stop a leak. Keep upwind of a leak or spill. Remove sources of heat or ignition. Provide maximum explosion-proof ventilation. Cleanup personnel need protection against inhalation of vapors and contact with liquid. Flush waste to the ground and away from sensitive areas with a cold water spray. Small spills can be absorbed with vermiculite, picked up with consparking tools, or allowed to evaporate with good ventilation or in a hood or open area. Pick up large spills if it is safe to do so and place them into an appropriate container for recovery or disposal. Keep waste out of severs or places where it can vaporize into confined spaces. DISPOSAL: Burn properiy (because of material's low flash point) in an approved incinerator. Follow Federal, state, and local regulations. Aquatic Toxicity, TLm 96: 100-10 ppm. n-Pentane is reported in the 1980 EPA TSCA Inventory. EPA Hazardous Waste Number (40 CFR 261.21, Ignitability): DO01. n-Pentane is not designated as a hazardous substance by the EPA (40 CFR 116.4). EPA Reportable Quantiry (40 CFR 117.3): Not Listed.

SECTION 8. SPECIAL PROTECTION INFORMATION

GOGGLES: Wear chemical safety goggies or eyeglasses to prevent eye contact where splashing is possible. GLOVES: Wear subber or neoprene gloves to prevent skin contact.

<u>RESPIRATOR</u>: For emergency or nonroutine exposures above the TLV, use a NIOSH-approved respirator with an organic vapor emister or air-supplied or self-contained breathing apparatus below 5000 ppm.

VENTILATION: Provide general and local explosion-proof exhaust ventilation to meet TLV requirements. The ventilation systems must be explosion proof and nonsparking.

SAFETY STATIONS: Make evewash stations, washing facilities, and safety showers available in areas of use and handling. CONTAMINATED FOURPMENT: Contact lenses pose a special hazard; soft lenses may absorb irritants, and all lenses concentrate them.

OTHER DERSONAL PROTECTIVE EOUPMENT: Wear protective clothing appropriate to the work situation to prevent skin contact. Remove solies clothing and lausder it before wearing it again, because it is a health and fire hazard.

COMMENTS: Practice good personal hygiene. Keep materials off of your clothes and equipment. Avoid transferring materials from hands to mouth while esting, drinking, or smoking.

SECTION 9. SPECIAL PRECAUTIONS AND COMMENTS

agents and sources of heat and ignition. Protect containers from and bond containers during transfers to prevent the generation for handling small amounts. Storage and handling must be suit where this material is stored or used. <u>ENGINEERING CON</u> distant sources of ignition and flash back. These vapors collect <u>OTHER 205CAUTIONS</u> : Avoid breating <i>n</i> -pentane vapors! lesurate exposure-monitoring and record-keeping requirements TRANSPORTATION DATA (per 49 CFR 172.101-2):	able for an OSHA Class IA flammable liquid. Do not smoke TROLS: The heavier-than-air n-pentane vapors may travel to in low-lying areas: minimize sources of ignition there. Prevent its contact with skin and eyes! Do not cat this material! that have been proposed by NIOSH for alkanes.
DOT Shipping Name: Pestane DO	IT Mazara Classi Flammaole Liquid IT ID No. UN1255
	O Labeis Flammable Liquid
נימיבייבי איניגיאיניגע איניגער איניגערייניגע איניגערייניגער איניגער איניגער איניגער איניגער איניגער איניגער אינ	Approvais SCRecensew
אני של הגוווי שורת אנר ז השטראווויץ. האנידור גערטעות האניווים אות הגוווי שורת אות אות אות אות אות אות אות אות א אני של אות	Indust. Hygiene/Sufety 6-22. 12/37
to the sectimery or suitability of such televisition for sectification to purchasers subsects purposes or for consequences of its use.	Medical Review 71/1- 12/27

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U.S. DEPARTMENT OF LABOR Occupational Safety and Health Administration

Form Approved OMB No. 44-R1387

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing, Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

Issued; September, 1981	SECTION I
MANUFACTURER'S NAME Liquid Air Corporation	EMERGENCY TELEPHONE NO. (415) 765-4500
ADDRESS (Number, Street, City, State, and ZIP Code) One Embarcadero Center, San Fi	cancisco, CA 94111
CHEMICAL NAME AND SYNONYMS Hydrogen	TRACE NAME AND SYNONYMS HYDLOGEN
CHEMICAL FAMILY Diatomic Gas	FORMULA H2

SECTION	411 -	HAZAR	RDOUS INGREDIENTS		
PAINTS, PRESERVATIVES, & SOLVENTS	*	TLV (Units)	ALLOYS AND METALLIC COATINGS	*	TLV (Únits)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS			FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES			OTHERS		
OTHERS					
HAZARDOUS MIXTURE	SOF	OTHER LI	DUIDS, SOLIDS. OR GASES	*	TLV (Units)
Reacts with oxidizing ag	ents	s such	as Chlorine, Fluorine,		
Oxygen, etc.					
-			• · · ·		
			•		

SE	CTION III - P	HYSICAL DATA	•
BOILING POINT (°F.)	-422.99	SPECIFIC GRAVITY (H20=1)	
VAPOR PRESSURE (mm Hs.) @ B.P.	760	PERCENT, VOLATILE BY VOLUME (%)	100%
VAPOR DENSITY (AIR#1)	.0696	ether =1) Greater than 1	
SOLUBILITY IN WATER	Neg.		
APPEARANCE AND ODOR Colorles	s and odor	less gas/liquid	

SECTION IV - FIRE AND	EXPLOSION HAZARD DA	TA
FLASH POINT (Method used) NONE (gas)	FLAMMABLE LIMITS	
EXTINGUISHING MEDIA Water, dry chemical, CO ₂		
Stop the flow of gas. Use large	quantities of wate	r for cooling
affected area and surrounding exp	posures.	
UNUSUAL FIRE AND EXPLOSION HAZARDS Highly flammable. Can react expl	Losively with oxidi	zing agents such
as Chlorine, Fluorine, Oxygen, et	tc. May produce an	almost invisible
Flame. Use caution when approach PAGE (1) (Continued on	ling suspected fire	Form OSHA-20 Ray, May 72

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE NOT life supporting. EFFECTS OF OVEREXPOSURE

Asphyxia.

EMERGENCY AND FIRST AID PROCEDURES Remove victim to open area. Give artificial respiration or

resuscitation if necessary. Call doctor.

SECTION VI - PEACTIVITY DATA CONDITIONS TO AVOID STABILITY UNSTABLE Any ignition source; uncontrolled release X STABLE of gas or liquid to atmosphere. INCOMPATABILITY (Materials to avoid) None HAZARDOUS DECOMPOSITION PRODUCTS CONCITIONS TO AVOID MAY OCCUR HAZARDOUS Х WILL NOT OCCUR

SECTION VII - SPILL OR LEAK PROCEDURES
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED If leak cannot be stopped by closing valve, carefully remove cylind
to an open area away from ignition sources. Avoid skin contact wit
liquid Hydrogen.
Controlled venting: Slow venting of gas (by use of regulator if
possible) to atmosphere away from buildings, people, sources of
ignition, by use of vent stack or other approved methods.

·	SECTION VIII	- SPECIAL PROTECT	
RESPIRATORY PR	ventilation.		
VENTILATION	LOCAL EXHAUST	Required	SPECIAL
	MECHANICAL (General)	Desirable	OTHER
PROTECTIVE GLO	gauntlet gloves	for liquid Face	shield or chemical goggles
OTHER PROTECT	IVE EQUIPMENT	handling.	when handling liquid.

SECTION IX - SPECIAL PRECAUTIONS	·
PRECAUTIONS TO BE TAKEN IN HANOLING AND STORING Keep ignition sources away. Store with adequate ventile	tion and
away from combustible and oxidizing materials. OTHER PRECAUTIONS Do not drop cylinders. Do not store near heat sources.	
cylinder contact with energized equipment. Additional info DOT Identification # UN1049	
Additional infoDOT Identification # UN1049PAGE (2)CAS # 1333-74-0GPO 930-540EPA # A948-7546	Form OSHA-20 Rev. May 72

13

ATTACHMENT "C"

SAFETY PROCEDURES/FIELD OPS

(FLDOP'S) See Accompanying Field OP Binder

ATTACHMENT "D"

SITE SPECIFIC HAZARD COMMUNICATION PROGRAM

Location Specific Hazard Communications Program/Checklist

In order to ensure an understanding of and compliance with the Hazard Communication Standard, WESTON will utilize this checklist/document (or similar document) in conjunction with the WESTON Written Hazard Communications Program as a means of meeting site or location specific requirements.

While responsibility for activities within this document reference the WESTON Safety Officer, it is the responsibility of all personnel to effect compliance. Responsibilities under various conditions can be found within the WESTON Written Hazard Communication Program.

To ensure that information about the dangers of all hazardous chemicals used by WESTON are known by all affected employees, the following hazardous information program has been established. All affected personnel will participate in the hazard communication program. This written program as well as WESTON's Corporate Hazard Communication Program will be available for review by any employee, employee representative, representative of OSHA, NIOSH or any affected employer/employee on a multi-employer site.

_	Site or other location name/address: Amory Packaging, 184 Store St., Clinton, MA
<u>~</u>	Site/Project/Location Manager: T. SACCOCCIO
	Site/Location Safety Officer: T. SACLOCCIO
	List of chemicals complied, format: HASP: Other:
_	Location of MSDS Files: Artached to HASI
\leq	Training Conducted by (name and date): T. SACCOCCIO 5/13/86
_	Indicate format of training documentation: Field Log:Other:
	Client briefing conducted regarding hazard communication:
NA	If multi-employer site, indicate name of affected companies:
NA	Other employer(s) notified of chemicals, labelling and MSDS information:

NA WESTON notified of other employer's or clients hazard communication program as necessary.

List of Hazardous Chemicals

A list of known hazardous chemicals used by WESTON personnel must be prepared and attached to this document or in a centrally identified location with the MSDS's. Further information on each chemical may be obtained by reviewing the appropriate MSDS's. The list will be arranged to enable cross reference with the MSDS file and the label on the container. The SO or location manager is responsible for ensuring the chemical listing remains up-to-date.

Container Labeling

The WESTON Safety Officer (SO) will verify that all containers received from the chemical manufacturer, importer or distributor for use on site will be clearly labeled.

The SO is responsible for assuring labels are placed where required and for comparing MSDS's and other information with label information to ensure correctness.

Material Safety Data Sheets (MSDS)

The SO is responsible for establishing and monitoring WESTON's MSDS program for the location. The SO will make sure procedures are developed to obtain the necessary MSDS's and will review incoming MSDS's for new or significant health and safety information. He/she will see that any new information is passed on to the affected employees. If an MSDS is not received at the time of initial shipment, the SO will call the manufacturer and have a MSDS delivered for that product in accordance with the requirements of WESTON's Written Hazard Communication Program.

A log for, and copies of, MSDS's for all hazardous chemicals in use will be kept in the MSDS folder at a location known to all site workers. MSDS's will be readily available to all employees during each work shift. If an MSDS is not available, immediately contact the WESTON SO or designated alternate. When revised MSDS's are received the SO will immediately replace the old MSDS's.

Employee Training and Information

The SO is responsible for the WESTON site-specific personnel training program. The SO will ensure that all program elements specified below are supplied to all affected employees.

At the time of initial assignment for employees to the work site or whenever a new hazard is introduced into the work area employees will attend a health and safety meeting or briefing that includes the information indicated below.

- Hazardous chemicals present at the worksite
- · Physical and health risks of the hazardous chemicals
- The signs and symptoms of overexposure

- Procedures to follow if employees are overexposed to hazardous chemicals
- Location of the MSDS file and written hazard communication program
- · How to determine the presence or release of hazardous chemicals in the employees work area
- How to read labels and review MSDS's to obtain hazard information
- · Steps WESTON has taken to reduce or prevent exposure to hazardous chemicals
- . How to reduce or prevent exposure to hazardous chemicals through use of controls procedures, work practices and personal protective equipment
- Hazardous, non-routine tasks to be performed (if any)
- Chemicals within unlabeled piping (if any)

Hazardous Non-Routine Tasks

When employees are required to perform hazardous non-routine tasks the affected employee(s) will be given information by the SO about the hazardous chemicals he or she may utilize during such activity. This information will include specific chemical hazards, protective and safety measures the employee can use and steps WESTON is using to reduce the hazards. These steps include, but are not limited to, ventilation, respirators, presence of another employee and emergency procedures.

Chemicals in Unlabeled Pipes

Work activities may be performed by employees in areas where chemicals are transferred through unlabeled pipes. Prior to starting work in these areas, the employee shall contact the SO at which time information as to; the chemical(s) in the pipes, potential hazards of the chemicals or the process involved, and safety precautions which should be taken will be determined and presented.

Multi-Employer Worksites

It is the responsibility of the SO to provide other employers with information about hazardous chemicals imported by WESTON to which their employees may be exposed, along with suggested safety precautions. It is also the responsibility of SO and the site manager to obtain information about hazardous chemicals used by other employers to which WESTON employees may be exposed. WESTON's chemical listing will be made available to other employers as requested. MSDS's will be available for viewing as necessary.

The location, format and/or procedures for accessing MSDS information must be relayed to affected employees.

ATTACHMENT "E"

OSHA JOB SAFETY POSTER



The Occupational Safety and Health Act of 1970 provides job safety and health protection for workers by promoting safe and healthful working conditions throughout the Nation. Provisions of the Act include the following:

Employers 13. 25

All employers must furnish to employe a amaiovit lace of employment free from recognized hazards that are causing or are likely to cause death or serious harm to employees. Employers must comply with occupational safety and health standards issued under the Act.

Employees

Employees must comply with all occupational safety and ein standards, rules, regulations and orders issued under the Act that apply to their own actions and conduct on the job.

The Occupational Safety and Health Administration (OSHA) of the U.S. Department of Labor has the primary responsibility for administening the Act. OSHA issues occupational safety and health dands, and its Compliance Safety and Health Officers conduct obsite inspections to help ensure compliance with the Act.



The Act requires that a representative of the employer and a representative authorized by the employees be given an opportunity to accompany the OSHA inspector for the purpose of aiding the inspection.

where there is no authorized employee representative, the OSHA Compliance Officer must consult with a reasonable number of employees concerning safety and health conditions in the workplace.

Complaint

Employees or their representatives have the right to file a complaint with the nearest OSHA office requesting an inspection if they believe unsale or unhealinful conditions east in their workplace. OSHA will withhold, on request, names of employees complaining.

The Act provides that employees may not be discharged or discriminated against in any way for filing safety and health nts or for otherwise exercising their rights under the Act. compia

Employees who believe they have been discriminated against may file a compliant with their nearest OSHA office within 30 days of he alleged discriminatory action.

Citation

If upon inspection OSHA believes an employer has violated the Act, a citation alleging such violations will be issued to the employer: Each citation will specify a time period within which the alleged violation must be corrected.

The OSHA citation must be prominently displayed at or near the place of alleged violation for three days, or until it is corrected, whichever is later, to warn employees of dangers that may exist there.

To report suspected fire hazards, imminent danger sately and health hazards in the workplace, or other ion sately and health emergencies, such as toxic waste in the workplace, call OSHA's 24-hour notline: 1-800-321-OSHA.

More Information

Additional information and copies of the Act. specific OSHA safety and hearth standards, and other applicable regulations may be obtained from your employer or from the nearest OSHA Regional Office in the following locations:

Attañta GA Boston, MA Chicago, IL Dallas, TX Denver, CO Kansas City, MO New York, NY (212) 337-2378 Philadelonia, PA (215) 596-1201 (415) 744-6670 San Francisco, CA Seame, WA (206) 553-5930

(404) 347-3573 (617) 565-7164 (312) 353-2220 (214) 787-4731 (303) 844-3061 (816) 426-5861

Lynn Martin

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Lynn Martin, Secretary of Labor

U.S. Department of Labor



Occupational Safety and Health Administration



This information will be made available to sensory impaired individuals upon request. Voice phone: (202) 219-8515; TDD message reserve phone: 1-800-325-2577

-U.S.GPO:1992-334-220

The Act provides for mandatory civil pana itiee acteinat empiri up to \$7,000 for each senous violation and for optional ponsities of up to \$7,000 for each nonsenous violation. Penanties of up to \$7,000 per day may be proposed for failure to correct violations within the proposed th penod and for each day the violation continues beyond the procented intext the

Proposed Penalty

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ment date. Also, any employer who willuity or repeatedly viol Act may be assessed penanties of up to \$70,000 for each such violation tor each williad v minimum penalty of \$5.000 may be impose violation of posting requirements can bring a penalty of up to \$7,000.

There are also provisions for criminal penalties. Any w resulting in the death of any employee, upon conviction, is purished by a fine of up to \$250,000 (or \$500,000 if the employer is a corporation), or by imprisonment for up to six months, or both. A second conviction of an employer doubles the possible term of imprisonment. Falarlying record reports, or applications is punishable by a fine of \$10,000 or up to six months in lail or both.

Se Voluntary Activity

While providing penalties for violations, the Act also anocured efforts by labor and management, before an CSHA inspection, to reduce workplace hazards voluntarily and to develop and improve safety and headsh programs in all workplaces and industries. OSHA's Voluntary Protection Programs recognize outstanding efforts of this nature.

OSHA has published Satety and Health Program Management Guidelines to assist employers in establishing or perfecting programs to prevent or control employee exposure to workplace hazards. There are many public and private organizations that can provide information ance in this effort, if requested. Also, your local OSHA office and assist can provide considerable help and advice on solving safety and health problems or can refer you to other sources for help such as training.

Consultation

Free assistance in identifying and correcting hazards and in improving safety and health management is available to employera, without citation or penalty, through OSHA-supported programs in each State. These programs are usually administered by the State Labor or least Health department or a State university.

Posting Instructions

Employers in States operating OSHA approved State Plans should obtain and post the State's equivalent poster.

Under provisions of Title 29,Code of Federal Regulations, Part 1903.2(a)(1) employers must post this nonce (or facsimile) in a conspicuous place wit no noticias to employees are customanly posted.