

**HOPKINS
4641**



**Rocky Mountain
Remediation Services, L.L.C.**
... protecting the environment

MEMORANDUM

DATE: August 22, 1996

TO: S. R. Garcia, Waste Generator Services, Bldg. T664, X6842

FROM: P. W. Edrich, Waste Systems, Bldg. T130B, X6081 *P. Edrich*

SUBJECT: CHARACTERIZATION OF WASTE CONTAINERS FROM THE REACTIVE CHEMICALS BURN

I have reviewed the characterization of the various waste containers located at 750 Pad resulting from the reactive chemical burn. I've talked with Randy Leitner who oversaw the burning of the reactive chemicals, and have based the following characterizations on information provided by Randy.

Three drums containing glass, light metal, and combustibles, and one halfcrate of HEPA filters and filter media were generated from the burn. According to Randy, the drum of glass most likely contains empty glass chemical containers which were single or triple-rinsed, as appropriate. The drum of light metal also contains chemical containers and probably the pans used to burn the chemicals. The combustible container most likely contains personal protective equipment. None of these drums would be characterized as hazardous waste since no chemicals or chemical residue should be present in the drums. However, Randy stated that the filters did become plugged with particulates from the treatment of the excess chemicals, so the halfcrate of filters should carry appropriate U and P EPA codes. Randy has provided a listing of the chemicals burned, which is attached. Please note that some of the U code chemicals are listed only for the characteristic of ignitability and therefore would not be applied to the contaminated filters.

A summary of the recommended characterization is listed below.

<u>Container No.</u>	<u>IDC</u>	<u>Current EPA Codes</u>	<u>Recommended EPA Codes</u>
D83936	0090 00054 330	U025, U030, U041, U042, U055, U108, U125, U161, U213, U227, U359	None
D83937	0090 00053 480	U025, U030, U041, U042, U055, U108, U125, U161, U213, U227, U359	None
D84302	0090 - 00052 440	U025, U030, U041, U042, U055, U108, U125, U161, U213, U227, U359	None
H04801	0090 00055 490	U025, U041, U042, U055, U108, U125, U130, U161, U213, U227, U359	U025, U041, U042, U108, U130, U162, U227, U359; P016



ADMIN RECORD

DOCUMENT CLASSIFICATION REVIEW WAIVER PER CLASSIFICATION OFFICE

V4

AUG-14-98 FRI 12:00

T893A

FAX NO. 303 966 2623

P.01

JUL- 2-98 TUE 11:03

T130C

FAX NO. 303 966 3578

P.01

REACTIVE CHEMICAL INVENTORY

ISOPROPYL ETHER	180	108-20-3	0001
METHYL ISO-BUTYL KETONE	5214	108-10-1	U181 (1)
METHYL METH-ACRYLATE MONOMER	1000	80-62-6	U182 (1.1)
	57651		

Post-it® Fax Note	7671	Date	7-2-78	# of pages	3
To	Mary Dandridge	From	R. LATTIMER		
Co./Dept.		Co.			
Phone #		Phone #			
Fax #	8048	Fax #	3578		

Mary - only the Codes & Circled apply, and only to the Filter media -

Empty containers were adequately decontaminated and/or triple rinsed as appropriate.

Note: The U-codes noted w/ (1) are listed only for the characteristic of ignitability, these codes go away after treatment - "Divined From" rule does not apply - please call if you have any questions -

Randy -

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REACTIVE CHEMICAL INVENTORY

2-METHYLFURAN	30	534-22-5	D001
DIBENZOFURAN	60	132-84-9	D001
TETRAHYDRO-2-METHYLFURAN	90		D001
TETRAHYDROFURAN	7222	109-99-9	U213 (I)
2-BUTOXYETHANOL	60	111-76-2	D001
2-CHLOROETHANOL	30	107-07-3	D001
2-CHLOROETHYL VINYLETHER	30	110-75-8	U042
2-ETHOXYETHANOL	90	110-80-5	U227, U359
2-(2-METHOXYETHOXY) ETHANOL	90	111-77-3	D001
BIS (2-ETHOXYETHYL) ETHER	120		D001
BIS (2-METHOXYETHYL) ETHER	120		D001
BIS (2-METHOXYETHOXY) ETHYL ETHER	60		D001
BUTYL CELLOSOLVE	1	111-76-2	D001
1,2-DIMETHOXYETHANE	30	110-71-4	D001
2-BUTOXYETHYL STEARATE	30		NONE
2-METHOXYETHYL STEARATE	30		NONE
4-METHYLCYCLOHEXANE	30	591-47-9	D001
4-VINYL CYCLOHEXANE-1	30	100-40-3	D001
CYCLOHEXANE	30	110-83-8	D001
ACETAL	30	105-57-7	D001
ALLYL ETHER	90	557-40-4	D001
p-METHYL STYRENE	30	98-83-9	D001
BENZYL ETHER	120	103-50-4	D001
BIS (-METHYLBENZYL) ETHER	60	93-69-9	D001
BIS (2-PHENOXYETHYL) ETHER	60		D001
BIS (2-BUTOXYETHYL) ETHER	30	112-73-2	D001
BIS (DIMETHYLBENZYL) ETHER	30		D001
BUTYL ETHER	30	142-96-1	D001
DIETHYLENE GLYCOL ETHYL ETHER	1030	111-90-0	D001
DIETHYLENE GLYCOL MONOBUTYL ETHER	150	112-34-5	D001
DIETHYLENE GLYCOL MONOMETHYL ETHER	60	111-77-3	D001
ETHYL ETHER	4080	60-29-7	D001
ETHYL VINYL ETHER	30	109-92-2	D001
ETHYLENE GLYCOL MONOBUTYL ETHER	60	111-76-2	D001
ETHYLENE GLYCOL MONOETHYL ETHER	60	110-80-5	D001
ETHYLENE GLYCOL MONOMETHYL ETHER	8813	109-86-4	D001
ISOAMYL BENZYL ETHER	60	122-73-6	D001
ISOBUTYL VINYL ETHER	30	109-53-5	D001
n-BUTYL ETHER	60		D001
n-HEXYL ETHER	60		D001
PHENYL ETHER	60		D001
POLYPROPYLENE GLYCOL MONOBUTYL ETHER	30		D001
CUMENE	60	98-82-8	U055 (I)
FURFURAL	60	98-01-1	U125 (I)
FURFURAL ACETATE	60	623-17-8	NONE
ISOPRENE	30	78-79-5	D001

REACTIVE CHEMICAL INVENTORY

CHEMICAL NAME	VOLUME (ml)	CAS#	EPA CODE
2, 2-OXYDIETHANOL	4000		D001
"UNKNOWN" (L&R RINSE SOLUTION)	9784		D001
BUTOXYETHYL MONOACRYLATE	30		NONE
DECAHYDRONAPHTHALENE	4030	91-17-8	D001
DIBUTOXYETHOXYETHYL ADIPATE	30	141-17-3	NONE
DIBUTOXYETHYL PHTHALATE	30	117-83-9	NONE
DIBUTOXYETHYL SEBACATE	30		NONE
DIBUTYL CARBITOL	1	112-73-2	NONE
DICYCLOPENTADIENE	60	77-73-6	D001
DIETHOXYETHYL PHTHALATE	30		NONE
DIETHOXYETHYL SEBACATE	30		NONE
DIETHOXYETHYL ADIPATE	30		NONE
DIISOPROPYL BENZENE	60	25321-09-9	NONE
DIMETHOXYETHYL PHTHALATE	30	117-82-8	NONE
EPICHLOROHYDRIN	60	106-89-8	U041
HEXACHLOROCYCLOPENTADIENE	30	77-47-4	U130
HEXANITRODIPHENYLAMINE IN ACETONE	946	131-73-7	D001
ISO-AMYL ETHER	90	544-01-4	D001
METHOXYETHYL ACETYL RICINOLEATE	30		NONE
METHYLOXYCYCLOPENTANE	30	96-97-7	D001
METHYLAL	30	108-87-5	D001
MORPHOLINE	30	110-91-8	D001
N-ETHYL MORPHOLINE	30	100-74-3	D001
N-METHYL MORPHOLINE	30	109-02-4	D001
PHENOXYETHANOL	30	122-99-8	D001
POLYMERIC EPOXY PLASTICIZER	30		NONE
POLYMERIC EPOXY VINYL PLASTICIZER	30		NONE
p-NITROBYPHENOL	30	92-93-3	NONE
STYRENE	30	100-42-5	D001
TETRAHYDRONAPHTHALENE	90	110-84-2	NONE
TRIBUTOXYETHYL PHOSPHATE	30		NONE
2-BUTOXYETHYL OLEATE	30		NONE
TETRAHYDROFURFURAL ACETATE	120	637-64-9	NONE
TETRAHYDROFURFURAL ALCOHOL	30	97-99-4	D001
1,1-DIMETHOXYETHANE	60	54-15-6	D001
1,2-DIMETHOXYETHANE	90	110-71-4	D001
1,2-BIS (2-METHOXYETHOXY) ETHANE	150		D001
BIS (2-CHLOROETHYL) ETHER	150	111-44-4	U025
BIS (CHLOROMETHYL) ETHER	30	542-88-1	R01B
BIS (p-BROMOPHENYL) ETHER	60	2050-47-7	D001
1,2-EPOXYETHYL BENZENE	60	96-09-3	D001
1,2-EPOXY-3-PHENOXY PROPANE	60	122-60-1	D001
DIOXANE	13160	123-91-1	U108
2,4-DINITROPHENYLHYDRAZINE	60		NONE
2,5-DIHYDROFURAN	30	1708-29-8	D001

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