WV-0053 #3

1. [illegible]

2. [illegible] RFP

UNION CARBIDE CORPORATION
Solvents & Intermediates

RECEIVED
JUN 30 1982
SAFETY DEPT.

Texas City Plant

RECEIVED
JUL 02 1982
R. E. PEELE

TO: J. E. Neff, B 740/4 511

DATE: May 19, 1982

CC: J. H. Barrett - Clear Lake
J. B. Leverton
A. P. Yalcinkaya

SUBJECT: Product List - Produced Products

PLAINTIFF'S EXHIBIT
UC-3305

FROM: J. H. Holstein

At your request I have prepared an alphabetical list and a list by UCC Divisions of most of the products we sell. The Threshold Limit Value [Ceiling (Ceil), Time Weighted Average (TWA), and Short Term Exposure Limit (STEL)], UCC and NIOSH Sampling and Analytical Method Number, and method classification are also indicated. The purpose of the survey is to determine our capability to monitor personnel exposure to the products we manufacture, to determine the chemicals for which NIOSH has developed a sampling and analytical procedure and we have not, and to compare the classification (Quality) of the UCC methods to the NIOSH methods.

We are currently up-dating the product list (products produced and purchased) at Texas City. Our incomplete purchased chemical list indicates that we are purchasing 153 chemicals of which 69 have established TLV's. My purpose in pointing this out is to give you some idea of the amount of work that is required in this area also.

The list contains a number of products for which I was unable to determine the actual chemical composition with the information available and within the alloted time. The list was prepared on the Wang Word Processor which will facilitate any changes.

WP2198A/clf

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UCC 000455

CHEMICAL DIV	DIV	CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
Acrolein	CM	N	0.1	0.3	N	N	118 211	Tentative Tentative
Acrylic Acid	CM	N	UCC 2	N	38C-3F1-R2	Unclassified	N	N
Acetic Acid	CM	N	10	15	38C-3A2-B2c	Accepted	S-169	Validated
Acetic Anhydride	CM	5	N		38C-15A2-R2a	Accepted	S-170	Validated
Butyl Acrylate	CM	N	10	N	38C-2C1-R2	Unclassified	N	N
Butylphenol, UCAR (para-tert)	CM	N	N	N	38C-86A11	Accepted	N	N
CARBITRON Admixture 20	CM	N	N	N	N	N	N	N
CELLOSIZE HEC (all Grades)	CM	N	Dust 10mg/M^3	N	38C-10X2-R2.4	Unclassified	29CFS	Unclassified
CELLOSOLVE Silicates	CM	N	N	N	N	N	N	N
Ethyl Acetate	CM	N	400	N	N	N	S-49	Validated
Ethyl Acrylate	CM	N	S-5	S-25	38C-2C1.2-R2	Unclassified	S-35	Validated
2-Ethylhexyl Acrylate	CM	N	UCC 5	UCC 10	38C-2C1-R2.1	Accepted	N	N
Ethyl Silicates	CM	N	10	30	N	N	S-264	Validated
Formaldehyde	CM	N	2	N	38C-4A1-R2	Tentative	S-327	Validated
Formic Acid	CM	N	5	N	N	N	S-173	Validated
Hexamethylenetetramine	CM	N	N	N	N	N	N	N

[1] None

[2] Skin (TLV column)

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CHEMICAL DIV	DIV	TLV CEIL	TLV TWA	TLV STEC	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
Isobutyl Acrylate	CM	N	N	N	38C-2C1-R2.1	Accepted	N	N
Isopropyl CELLOSOLVE	CM	N	N	N	N	N	N	N
Methacrylic Acid	CM	N	20	N	N	N	N	N
Methyl Formate	CM	N	100	150	N	N	S-291	Validated
Methyl Methacrylate	CM	N	100	125	38C-2C1-R2.1	Accepted	S-43	Validated
Phenolic Resins	CM							
Tetraethyl-o-silicate	CM	N	N	N	N	N	N	N
UCAR Buffering Acid	CM							
UCAR Butyl Phenol	CM	N	N	N	N	N	N	N
UCAR Hexa	CM							
UCAR Latexes	CM							
Adhesive 150								
151								
152								
153								
A-Asphyxiant								
P-Particulate								

UCC 000456

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CHEMICAL DIV	DIV	TLV CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
UCAR Latexes CM (cont)								
	154							
	165							
	166							
	172							
	173							
	183							
	189							
	872							
Latexes	130							
	131							
	134							
	167							
	350							
	351							
	365							
	366							
	380							
	503							
	508							
	560							
	5000							
Mastic & Caulk								
	153							
	154							
	163							
	351							
	560							
Textil Coating & Binders								
	803							
	812							
	822							
	828							
	872							
	874							
	878							
	879							

UCC 000457

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CHEMICAL DIV	DIV	TLV CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
UCAR Latexes CM (cont)								
Vehicles								
4029								
4151								
4270								
4312								
4341								
4358								
4362								
4414								
4426								
4431-X								
4433								
4510								
4512								
4550								
4620								
4630-X								
UCAR Pickling Acid	CM							
Vinyl Acetate	CM	N	10	20	38C-2A2.40-R2.1	Unclassified	278	Proposed

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CHEMICAL DIV		DIV	TLV CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
Acetylene		E&HC	N	A	N	N	N	N	N
Benzene		E&HC	N	10	25	38C-81A1-R2.1 38C-81A1-R2.2	Approved Unclassified	127 S-311	Recommended Validated
Butadiene		E&HC	N	1000	1250	N	N	S-91	Validated
Butane		E&HC	N	800	N	N	N	N	N
Coke		E&HC	N	Dust 10 mg/m^3	N	38C-10X2-R2.4	Unclassified	29CFS	Unclassified
Dripolene		E&HC							
Benzene	39%		N	10	25	38C-81A1-R2.1	Approved	S-311	Validated
Cg and Heavies	5.0%		U	U	U	N	N	N	N
Dicyclopentadiene	15.0%		N	5	N	38C-M1B5-R2	Accepted	N	N
Ethylbenzene	0.6%		N	100	125	N	N	S-29	Validated
Raffinate	29.0%		U	U	U	N	N	N	N
Styrene	3.5%		N	50	100	38C-81C1-R2	Unclassified	S-30	Validated
Toluene	7.3%		N	S-100	S-150	38C-10S-R2	Unclassified	S-343	Validated
Xylene	1.0%		N	S-100	S-150	38C-10S-R2	Unclassified	S-318	Validated
Ethylene		E&HC	N	Asphyxiant	N	N	N	N	N
Methanol		E&HC	N	S-200	S-250	N	N	247 S-59	Proposed Validated
Naphtha		E&HC							
Cyclohexane	1.0%		N	300	375	N	N	S-28	Validated
n-Heptane	8.0%		N	400	500	N	N	S-89	Validated
n-Hexane	13.0%		N	100	125	N	N	S-90	Validated
Methylcyclohexane	2.0%		N	400	500	N	N	S-94	Validated
n-Nonane	2.0%		N	200	250	N	N	N	
n-Octane	5.0%		N	300	375	N	N	S-378	Validated
n-Pentane	10.0%		N	600	750	N	N	S-379	Validated
Toluene	1.7%		N	S-100	S-150	38C-10S-R2	Unclassified	S-343	Validated
Xylene	1.3%		N	S-100	S-150	N	N	S-318	Validated

UCC 000459

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UCC 000460

CHEMICAL DIV		DIV	TLV CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
Alcohols, Secondary		EOD							
Alkylbenzenes		EOD							
N-(2-Aminoethyl)ethanolamine		EOD	N	N	N	N	N	N	N
N-Aminoethylpiperazine		EOD	N	N	N	N	N	N	N
Butoxytriglycol		EOD	N	N	N	N	N	N	N
Butyl Carbitol		EOD	N	N	N	N	N	N	N
Butyl Cellosolve		EOD	N	S-25	S-50	38C-11B4-R2	Unclassified	S-76	Validated
CARBITOL SOLVENT (PM-600)		EOD							
CARBITOL Low Gravity	70.50%		N	N	N	N	N	N	N
Ethylene Glycol	29.50%		Vapor 50	Part 10 mg/m^3	Part 20 mg/m^3	38C-11A1-R2 38C-70W6-R2a	Unclassified Unclassified	338	Proposed
CARBITOL Solvent Low Gravity		EOD	N	N	N	N	N	N	N
CARBOWAX Methoxy PEG's (MPEG)		EOD	N	N	N	N	N	N	N
CARBOWAX PEG Liquid/Solids		EOD	N	N	N	N	N	N	N
CARBOWAX TPEG 990		EOD	N	N	N	N	N	N	N
Catalyst Code Products		EOD							

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CHEMICAL DIV	DIV	CEIL	TLV TWA	TLV STEL	METHOD UCC NO	UCC CLASS	NIOSH NO	NIOSH CLASS
CELLOSOLVE Solvent	EOD	N	S-50	S-100	38C-70W6-R2a	Unclassified	S-361	Validated
Diethanolamine	EOD	N	3	N	N	N	N	N
Diethylenetriamine	EOD	N	S-1	S4	N	N	S-276	Validated
Diisopropylamine	EOD	N	S-5	N	N	N	221 S-141	Proposed Validated
DIOL-400	EOD	N	N	N	N	N	N	N
Dustik B	EOD							
Ethanolamine	EOD	N	3	6	N	N	270	Proposed
Ethoxytriglycol	EOD	N	N	N	N	N	N	N
Ethylamine	EOD	N	10	N	38C-7A2-R2	Unclassified	221	Proposed
Ethylenediamine	EOD	N	10	N	38C-18A1-R2.1	Unclassified	S-276	Validated
Ethylene Dichloride	EOD	N	UCC 5	N	38C-10S-R2	Unclassified	S-122	Validated
FLEXOL Plasticizer B-400	EOD	N	N	N	N	N	N	N
FLUID AP	EOD	N	N	N	N	N	N	N
Isopropylamine	EOD	N	5	10	N	N	221 S-147	Proposed Validated
Linear Alcohols	EOD	N	N	N	N	N	N	N
Methoxytriglycol	EOD	N	N	N	N	N	N	N

UCC 000461

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CHEMICAL DIV	DIV	TLV CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
Methyl CARBITOL	EOD	N	N	N	N	N	N	N
Methyl CELLOSOLVE	EOD	N	S-25	S-35	38C-1181-R2	Tentative	S-79	Validated
Monoethanolamine	EOD	N	3	6	N	N	270	Proposed
Monoethylamine	EOD	N	10	N	38C-7A2-R2	Unclassified	N	N
Monoisopropylamine	EOD	N	N	N	N	N	N	N
Pentaethylenehexamine (Polyamine D)	EOD	N	N	N	N	N	N	N
Phenyl Alkane F	EOD							
Piperazine	EOD	N	N	N	N	N	N	N
Polyamine D	EOD	N	N	N	N	N	N	N
Polyamine HPA No 2 Mixture, (PM-1076)	EOD							
Polyamine HPA No 2 78%		N	N	N	N	N	N	N
Diethylenetriamine		N	S-1	N	N	N	S-276	Validated
Polyamine HPA #2	EOD	N	N	N	N	N	N	N
SOLVENT WC-65	EOD							
SOLVENT WC-133	EOD							
SOLVENT WC-322	EOD							

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CHEMICAL DIV	DIV	TLV CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
TERGITOL Nonionic Min-Foams	EOD							
MinFoam 1X		N	N	N	N	N	N	N
MinFoam 2X		N	N	N	N	N	N	N
TERGITOL Nonionic Surfactants	EOD							
15-S-3		N	N	N	N	N	N	N
15-S-5		N	N	N	N	N	N	N
15-S-7		N	N	N	N	N	N	N
15-S-9		N	N	N	N	N	N	N
15-S-12		N	N	N	N	N	N	N
15-S-15		N	N	N	N	N	N	N
15-S-20		N	N	N	N	N	N	N
15-S-30		N	N	N	N	N	N	N
15-S-40		N	N	N	N	N	N	N
25-L-3		N	N	N	N	N	N	N
25-L-5		N	N	N	N	N	N	N
25-L-7		N	N	N	N	N	N	N
25-L-9		N	N	N	N	N	N	N
25-L-12		N	N	N	N	N	N	N
NP-4		N	N	N	N	N	N	N
NP-7		N	N	N	N	N	N	N
NP-9		N	N	N	N	N	N	N
NP-10		N	N	N	N	N	N	N
NP-13		N	N	N	N	N	N	N
NP-40		N	N	N	N	N	N	N
OP-15		N	N	N	N	N	N	N
TMN-3		N	N	N	N	N	N	N
TMN-6		N	N	N	N	N	N	N
TMN-10		N	N	N	N	N	N	N
XD		N	N	N	N	N	N	N
XH		N	N	N	N	N	N	N
Tetraethylenepentamine	EOD	N	N	N	N	N	N	N
Triethanolamine	EOD	N	N	N	N	N	N	N

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CHEMICAL DIV	DIV	TLV CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
Allyl Methacrylate	SCP	N	N	N	N	N	N	N
AMIDEL	SCP							
ARDEL (Polyarylates)	SCP	N	N	N	N	N	N	N
AQUCAR	SCP							
BAKELITE EPOXY RESINS (PERACID DERIVED)	SCP							
ADME X-790A		N	N	N	N	N	N	N
AOE C-16		N	N	N	N	N	N	N
Caprolactone		N	N	N	N	N	N	N
Cyclohexanone		N	25	100	N	N	S-19	Validated
ERL-4205								
ERL-4206								
ERL-4221								
ERL-4234								
ERL-4299								
FLEXOL PLASHICIZER EP-8		N	N	N	N	N	N	N
FLEXOL PLASTICIZER EPO		N	N	N	N	N	N	N
FLEXOL PLASTICIZER LOE		N	N	N	N	N	N	N
N, N-Bis (3-Aminopropyl) methylamine	SCP	N	N	N	N	N	N	N
1-(Butoxyethoxy)-2-Propanol	SCP	N	N	N	N	N	N	N
t-Butylethanolamine	SCP	N	N	N	N	N	N	N
t-Butyldiethanolamine	SCP	N	N	N	N	N	N	N
Caprolactone	SCP	N	N	N	N	N	N	N

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CHEMICAL DIV	DIV	TLV CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
epsilon-Caprolactone	SCP	N	N	N	N	N	N	N
CARBOWAX MPEG-550 Acrylate	SCP	N	N	N	N	N	N	N
CELLOSOLVE Acrylate	SCP	N	N	N	N	N	N	N
Cyclohexanone	SCP	N	25	100	N	N	S-19	Validated
Dibutyl CARBITOL	SCP	N	N	N	N	N	N	N
Dichlorodiphenyl Sulfone	SCP	N	N	N	N	N	N	N
DIENE-205 [Bis (Cyclopentenyl) ether]	SCP	N	N	N	38C-M185-R2	Accepted	N	N
DIENE-221	SCP							
DIENE-234	SCP							
DIENE-299	SCP							
2-(N,N-Diethylamino) ethyl Acrylate	SCP	N	N	N	N	N	N	N
Diethyl Carbitol	SCP	N	N	N	N	N	N	N
N,N-Diethylethanolamine	SCP	N	N	N	N	N	N	N
Di(2-ethylhexyl) Phosphoric Acid	SCP	N	N	N	N	N	N	N
Dimethylaminoethoxyethanol	SCP	N	N	N	N	N	N	N
Dimethylaminoethoxyethyl Acrylate	SCP	N	N	N	N	N	N	N
2-Dimethylaminopropylamine	SCP	N	N	N	N	N	N	N

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CHEMICAL DIV	DIV	TLV CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
N,N-Dimethylethanolamine	SCP	N	N	N	N	N	N	N
Dimethylisopropanolamine	SCP	N	N	N	N	N	N	N
2,3-Dimethylpentaldehyde	SCP	N	N	N	N	N	N	N
Dioxane	SCP	N	25	UCC 50	38C-105-R2	Unclassified	S-360	Validated
Dipropylene Glycol	SCP	N	N	N	N	N	N	N
EPOXIDIZED Oils	SCP							
FLEXOL Plasticizer EP-8		N	N	N	N	N	N	N
FLEXOL Plasticizer EPO		N	N	N	N	N	N	N
FLEXOL Plasticizer LOE		N	N	N	N	N	N	N
Ester Diol 204	SCP							
Ethylbenzene	SCP	N	100	125	N	N	S-29	Validated
Ethyl Butyl Ketone	SCP	N	50	75	N	N	S-16	Validated
Ethylene Glycol Dimethacrylate	SCP	N	N	N	N	N	N	N
2-Ethyl-1,3-hexanediol	SCP	N	N	N	N	N	N	N
2-Ethylhexyl CELLOSOLVE	SCP	N	N	N	N	N	N	N
FLEXOL Plasticizer EP-8	SCP	N	N	N	N	N	N	N
FLEXOL Plasticizer EPO	SCP	N	N	N	N	N	N	N
FLEXOL Plasticizer LOE	SCP	N	N	N	N	N	N	N
FLEXOL Plasticizer TOF	SCP	N	N	N	N	N	N	N
Glutaraldehyde	SCP	0.2	N	N	38C-4Q5-R2a	Unclassified	N	N

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CHEMICAL DIV	DIV	TLV CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
Glutaric Anhydride	SCP	N	N	N				
Hexyl CARBITOL	SCP	N	N	N	N	N	N	N
Hexyl CELLOSOLVE	SCP	N	N	N	N	N	N	N
Isopropenyl Acetate (Methyl Vinyl Acetate)	SCP	N	N	N	N	N	N	N
KROMFAX Solvent (Thiodiethylene Glycol)	SCP	N	N	N	N	N	N	N
2-Methoxy-3,4-Dihydro-2-Pyran	SCP	N	N	N	N	N	N	N
N-Methyldiethanolamine	SCP	N	N	N	N	N	N	N
N-Methylethanolamine	SCP	N	N	N	N	N	N	N
Methyl Isopropyl Ketone	SCP	N	200	N	N	N	N	N
2-Methylpentaldehyde	SCP	N	N	N	N	N	N	N
Methyl Propyl Ketone	SCP	N	200	250	N	N	N	N
MORLEX Corrision Inhibitors	SCP							
1,5-Pentanediol	SCP	N	N	N	N	N	N	N
2,4-Pentanedione	SCP	N	N	N	N	N	N	N
Peracetic Acid	SCP	N	N	N	N	N	N	N
Polyglycolamine H-163	SCP							

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CHEMICAL DIV	DIV	TLV CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
Polyglycoldiamines	SCP							
Polymer JR	SCP	N	N	N	N	N	N	N
POLYOX	SCP	N	N	N	N	N	N	N
Polysulfone	SCP	N	N	N	N	N	N	N
PROPASOL Solvents PROPASOL Solvent B	SCP							
PROPASOL Solvent BEP								
PROPASOL Solvent DM								
PROPASOL Solvents SCP (cont)								
PROPASOL Solvent M								
PROPASOL Solvent P								
Propiophenone	SCP	N	N	N	N	N	N	N

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CHEMICAL DIV	DIV	TLV CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
Propylene Glycol	SCP	N	N	N	N	N	N	N
n-Propyldiethanolamine	SCP	N	N	N	N	N	N	N
n-Propylethanolamine	SCP	N	N	N	N	N	N	N
RADEL	SCP	N	N	N	N	N	N	N
Rapid Water Additive	SCP							
Resin Hardeners	SCP							
ZZL-0806 (Diethylenetriamine)		N	S-1	S-4	N	N	S-276	Validated
ZZL-0809 (Diethylenetriamine)		N	S-	S-4	N	N	S-276	Validated
ZZL-0822 (Polyglycoldiamine H-221)		N	N	N	N	N	N	N
ZZL-0840 (Triethylenetetramine)		N	N	N	N	N	N	N
ZZL-0806 (Tetraethylenepentamine)		N	N	N	N	N	N	N
SALVATONE M	SCP							
Tetradecanol	SCP	N	N	N	N	N	N	N
Tetrahydrobenaldehyde	SCP	N	N	N	N	N	N	N
Tripropylene Glycol	SCP	N	N	N	N	N	N	N
UCAR Flood Freeze 35	SCP							

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CHEMICAL DIV		DIV	TLV CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
UCARSAN Sanitizers		SCP							
UCARSAN Sanitizer 402, PM-5930									
Water, Demineralized	97.680%								
UCARCIDE 250 (Glutaraldehyde 50%)	2.000%		0.2	N	N	38C-405-R2a	Unclassified	N	N
TERGITOL 15-S-9	0.300%		N	N	N	N	N	N	N
Perfume Compound 46616	0.020%		N	N	N	N	N	N	N
UCARSAN Sanitizer 420, PM-5911									
Water, Demineralized	76.800%								
UCARCIDE 250 (Glutaraldehyde 50%)	2.000%		0.2	N	N	38C-405-R2a	Unclassified	N	N
TERGITOL 15-S-9	3.000%		N	N	N	N	N	N	N
Perfume Compound 46616	0.020%		N	N	N	N	N	N	N
UCAR Tanning Agent G-50		SCP							
See Glutaraldehyde									
UCAR Windshield Deicer		SCP							
UCARCIDE Antimicrobials 125LT, PM-5922		SCP							
UCARCIDE 250 (Glutaraldehyde 50%)	51.50%		0.2	N	N	38C-405-R2a	Unclassified	N	N
Acetone	29.99%		N	1000	1250	38C-5A1-R2	Unclassified	S-1	Validated
Water, Demineralized	18.50%								
EDTA-tet Sodium Salt	0.01%		N	N	N	N	N	N	N
UCON Polysulfone		SCP							
Vinyl Methyl Ether		SCP	N	N	N	N	N	N	N
WINTER-FLO Coal Aids		SCP							
73, PM-5895									
Winter-Flo Coal Aid 103	74.074%								
See 103, PM-5882 below									
Water, Demineralized	25.926%								

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CHEMICAL DIV		DIV	TLV CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
WINTER-FLO Coal Aids SCP (cont)									
93, PM-5969									
Winter-Flo Coal Aid 103	76.511%								
See 103, PM-5882 below									
Diethylene Glycol	15.302%		N	N	N	N	N	N	N
Water, Demineralized	8.187%								
101, PM-5855									
Diechylene Glycol	64.9%		N	N	N	N	N	N	N
Propasol Solvent DM	20.0%		U	U	U	U	U	U	U
TERGITOL 15-5-7	10.0%		N	N	N	N	N	N	N
Water, Demineralized	5.0%								
Triethanolamine, 99%	0.1%		N	N	N	N	N	N	N
102, PM-5868									
Diethylene Glycol	49.9%		N	N	N	N	N	N	N
Propylene Glycol, USP	45.0%		N	N	N	N	N	N	N
Water, Demineralized	5.0%		N	N	N	N	N	N	N
Triethanolamine, 99%	0.1%		N	N	N	N	N	N	N
103, PM-5882									
Ethylene Glycol	86.4%		Vapor 50	Part 10	Part 20	38C-70W6-R2	Unclassified	338	Proposed
Cellosolve Solvent	8.6%		N	S-50	S-100	38C-70W6-R2	Unclassified	S-361	Validated
Water, Demineralized	4.9%								
Dimethylethanolamine			N	N	N	N	N	N	N
220, PM-5918									
Kerosene	70.0%		N	N	N	N	N	N	N
TERGITOL 15-S-3	20.0%		N	N	N	N	N	N	N
Cellosolve Solvent	10.0%		N	S-50	S-100	38C-70W6-R2	Unclassified	S-361	Validated

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CHEMICAL DIV		DIV	TLV CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
Aircraft Deicing Fluids		EOG							
ADF-2-40-D									
UCAR-ADF-2, PM-5178	42.75%								
PM5178 is: PM-5234	99.998%								
Dye, Orasol Red G	0.001%		N	N	N	N	N	N	N
Dye, Uranine, Conc	0.001%		N	N	N	N	N	N	N
PM-5234 is: Ethylene Glycol	80.954%		Vapor 50	P10mg/M3	P20mg/M3	38C-70W6-R2a		338	Proposed
Diethylene Glycol	10.000%		N	N	N	N	N	N	N
Water, Demineralized	7.85%								
Potassium Phosphate, Dib	0.50%		N	N	N	N	N	N	N
Tolyltriazole	0.50%		N	N	N	N	N	N	N
Sodium Di-2-Hexylsulfosuc	0.133%		N	N	N	N	N	N	N
Potassium Hydroxide	0.063		2 mg/m3			N	N	N	
Dye, Orasol Red G	0.001%		N	N	N	N	N	N	N
Dye, Uranine Conc	0.001%		N	N	N	N	N	N	N
ADF-2-50-D, PM-5196									
PM-5234 (See above)	52.798%								
Water, Demineralized	47.200%								
Dye, Orasol Red G	0.001%		N	N	N	N	N	N	N
Dye, Uranine Conc	0.001%		N	N	N	N	N	N	N
UCAR ADF-2, PM-5234									
See above									
UCAR ADF-2-D, PM-5178									
See above									
Deactivator A		EOG							
Deicing Fluid C		EOG							
Diethylene Glycol		EOG	N	N	N	N	N	N	N
Ethylene Glycol		EOG	Vapor 50	Part 10 mg/M3	Part 20 mg/m3	38C-11A1-R2 38C-70W6-R2a	Unclassified Unclassified	338	Proposed

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CHEMICAL DIV		DIV	TLV CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
Ethylene Oxide		EOG	N	UCC 5	N	38C-K2B-R2.2b	Approved	S-286	Validated
Tetraethylene Glycol		EOG	N	N	N	N	N	N	N
Triethylene Glycol		EOG	N	N	N	N	N	N	N
UCAR Runway Deicers		EOG							
UCAR Runway Deicer, PM-5197									
Ethylene Glycol	50.000%		Vapor 50	Part 10	Part 20	38C-70W6-R2a	Unclassified	338	Proposed
Urea, 50% Aqueous	45.400%		N	N	N	N			
Water, Demineralized	2.084%								
Sodium Flouride	0.010%		N	N	N	N	N	N	N
Tolyltriazole TT-100	0.500%		N	N	N	N	N	N	N
Dipotassium Hydrogen Phosphate	2.000%		N	N	N	N	N	N	N
Dye, Alizarine Astrol B	0.006%		N	N	N	N	N	N	N
UCAR Runway Deicer 2, PM-5973									
Ethylene Glycol	53.484%		Vapor 50	Part 10	Part 20	38C-70W6-R2a	Unclassified	338	Proposed
Urea, 50% Aqueous	45.000%		N	N	N	N			
Dipotassium Hydrogen Phosphate	1.000%		N	N	N	N	N	N	N
Tolyltriazole TT-100	0.500%		N	N	N	N	N	N	N
Sodium Flouride	0.010%		N	N	N	N	N	N	N
Dye, Alizarine Astrol B	0.006%		N	N	N	N	N	N	N
UCAR Runway Deicer 3, PM-5975									
Ethylene Glycol	59.984%		Vapor 50	Part 10	Part 20	38C-70W6-R2a	Unclassified	338	Proposed
Urea, 50% Aqueous	30.000%		N	N	N	N			
Water, Demineralized	8.500%								
Dipotassium Hydrogen Phosphate	1.000%		N	N	N	N	N	N	N
Tolyltriazole TT-100	0.500%		N	N	N	N	N	N	N
Sodium Flouride	0.010%		N	N	N	N	N	N	N

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UCC 000474

CHEMICAL DIV		DIV	TLV CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
UCAR Runway Deicers EOG (cont)									
UCAR Runway Deicer 4, PM-5977									
Ethylene Glycol	59.984%		Vapor 50	Part 10	Part 20	38C-70W6-R2a	Unclassified	338	Proposed
Urea, 50% Aqueous	30.000%		N	N	N	N			
Water, Demineralized	9.000%								
Dipotassium Hydrogen Phosphate	1.000%		N	N	N	N	N	N	N
Sodium Flouride	0.010%		N	N	N	N	N	N	N
Dye, Alizarine Astrol B	0.006%		N	N	N	N	N	N	N
UCAR Thermofluids		EOG							
UCAR Thermofluid, PM-5961									
Water, Dionized	67.36%								
UCAR Thermofluid 17, PM-1717	32.64%								
PM-1717 is Ethylene Glycol	94.98%		Vapor 50	Part 10	Part 20	38C-70W6-R2a	Unclassified	338	Proposed
Water, Demineralized	1.53%								
Potassium Hydroxide	1.61%		2 mg/m^3	N	N	N	N	173	Recommended
Boric Acid	1.01%		N	N	N	N	N	N	N
Phosphoric Acid 75%	0.66%		N	1 mg/m^3	3 mg/m^3	N	N	S-333	Validated
Sodium Mercaptobenzothiazole 50%	0.21%		N	N	N	N	N	N	N
UCAR Thermofluid Spec-4, PM-5821									
Ethylene Glycol	60.00%		Vapor 50	Part 10	Part 20	38C-70W6-R2a	Unclassified	338	Proposed
Water, Demineralized	36.51%								
Potassium Hydroxide	1.61%		2 mg/m^3	N	N	N	N	173	Recommended
Boric Acid	1.01%		N	N	N	N	N	N	N
Phosphoric Acid, 75%	0.66%		N	1 mg/m^3	3 mg/m^3	N	N	S-333	Validated
Sodium MBT 50% Aqueous	0.21%		N	N	N	N	N	N	N
UCAR Thermofluid Spec-5, PM-5846									
UCAR Thermofluid 17	67.8%								
Water, Demineralized	32.2%								

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CHEMICAL DIV		DIV	TLV CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
UCAR Thermofluids EDG (cont)									
UCAR Thermofluid 17, PM-1717									
Ethylene Glycol	94.98%		Vapor 50	Part 10	Part 20	3BC-70W6-R2a	Unclassified	338	Proposed
Water, Demineralized	1.53%								
Potassium Hydroxide, Flaked	1.61%		2 mg/m^3	N	N	N	N	173	Recommended
Boric Acid	1.01%		N	N	N	N	N	N	N
Phosphoric Acid, 75%	0.66%		N	) mg/m^3	3 mg/m^3	N	N	S-333	Validated
Sodium MBT, 50%	0.21%		N	N	N	N	N	N	N
UCAR Thermofluid 17 Spec-1, PM-5766									
Water, Demineralized	58.00%								
PM-1717 (See PM-1717 above)	42.00%								
UCAR Thermofluids 17 Spec-2, PM-5767									
Water, Demineralized	52.00%								
PM-1717 (See PM-1717 above)	48.00%								
UCAR Thermofluids 17 Spec-3, PM-5819									
Water, Demineralized	37.06%								
PM-1717 (See PM-1717 above)	62.94%								
UCAR Thermofluids 17 Spec-5, PM-5846									
Water, Demineralized	32.20%								
PM-1717 (See PM-1717 above)	67.80%								
UCAR Thermofluids 17 Spec-6, PM-5849									
Water, Demineralized	42.00%								
PM-1717 (See PM-1717 above)	58.00%								

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CHEMICAL DIV	DIV	TLV CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
Acetaldehyde	S&I	N	100	150	N[1]	N	S-345	Validated
Acetic Esters	S&I							
Amyl Acetate		N	100	150	N	N	S-51	
Butyl Acetate		N	150	200	N	N	S-47	
Butyl Carbitol Acetate		N	N	N	N	N	N	N
Butyl Cellosolve Acetate		N	N	N	N	N	N	N
Carbitol Acetate		N	N	N	N	N	N	N
Cellosolve Acetate		N	50	100	N	N	S-41	Validated
Glyceryl Triacetate		N	N	N	N	N	N	N
Glycol Diacetate		N	N	N	N	N	N	N
Hexylene Glycol Diacetate		N	N	N	N	N	N	N
Isobutyl Acetate		N	150	187	N	N	S-44	Validated
Isopropyl Acetate		N	250	310	N	N	S-50	Validated
Methyl Cellosolve Acetate		N	S2-25	S-35	N	N	S-39	Validated
Primary Amyl Acetate, Mixed Isomers		N	N	N	N	N	N	N
N-Propyl Acetate		N	200	250	N	N	S-48	Validated
Triethylene Glycol Diacetate		N	N	N	N	N	N	N
Acetone	S&I	N	1000	1250	38C-5A1-R2 S-1	Unclassified	127	Operational
Acetophenone	S&I	N	N	N	N	N	N	N
Amyl Acetate	S&I	N	100	150	N	N	S-51	
Amyl Alcohol, Primary	S&I	N	N	N	N	N	N	N

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CHEMICAL DIV		DIV	TLV CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
ANHYDROL Solvents		S&I							
ANHYDROL® 200 Proof Gov Form A1, PM-1473									
Ethanol SDI, 190 Proof	90.40%								
SDI is Ethanol	99.95%		N	1000	N	N	N	S-56	Validated
Methyl Isobutyl Ketone	0.01%		N	50	75	38C-582-R2	Unclassified	S-18	Validated
Methanol	0.04%		N	S-200	S-250	N	N	247	Operational
								S-59	Validated
Isopropanol	8.70%		N	400	500	N	N	S-49	Validated
Methyl Isobutyl Ketone	0.90%		N	50	75	38C-582-R2	Unclassified	S-18	Validated
ANHYDROL® 200 Proof Gov Form A1, PM-1474									
Ethanol SDI, 200 Proof	90.20%								
SDI is Ethanol	99.95%		N	1000	N	N	N	S-56	Validated
Methyl Isobutyl Ketone	0.01%		N	50	75	38C-582-R2	Unclassified	S-18	Validated
Methanol	0.04%		N	S-200	S-250	N	N	247	Operational
								S-59	Validated
Isopropanol	8.90%		N	400	500	N	N	S-49	Validated
Methyl Isobutyl Ketone	0.90%		N	50	75	38C-582-R2	Unclassified	S-18	Validated
ANHYDROL® 200 Proof Gov Form B, PM-1779									
Ethanol SDI, 200 Proof	90.10%								
SDI is Ethanol	99.95%		N	1000	N	N	N	S-56	Validated
Methyl Isobutyl Ketone	0.01%		N	50	75	38C-582-R2	Unclassified	S-18	Validated
Methanol	0.04%		N	S-200	S-250	N	N	247	Operational
								S-59	Validated
Methanol	4.50%		N	S-200	S-250	N	N	247	Operational
								S-59	Validated
Isopropanol	4.50%		N	400	500	N	N	S-49	Validated
Methyl Isobutyl Ketone	0.90%		N	50	75	38C-582-R2	Unclassified	S-18	Validated

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CHEMICAL DIV		DIV	TLV CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
ANHYDROL Solvents S&I (cont)									
ANHYDROL® 190 Proof									
Gov Form B, PM-3560									
Ethanol SDI, 190 Proof	90.32%								
SDI is Ethanol	99.95%		N	1000	N	N	N	S-56	Validated
Methyl Isobutyl Ketone	0.01%		N	50	75	38C-582-R2	Unclassified	S-18	Validated
Methanol	0.04%		N	S-200	S-250	N	N	247	Operational
								S-59	Validated
Isopropanol, 99%	4.38%		N	400	500	N	N	S-49	Validated
Methyl Isobutyl Ketone	0.89%		N	50	75	38C-582-R2	Unclassified	S-18	Validated
Methanol	4.41%		N	S-200	S-250	N	N	247	Operational
								S-59	Validated
ANHYDROL® METHANOL BLEND, PM-5946									
PM-4082	83.26%								
See PM-4082 for Composition									
Methanol	16.74%		N	S-200	S-250	N	N	247	Operational
								S-49	Validated
ANHYDROL® SPECIAL 200, PM-3153									
Ethanol SDI, 200 Proof	93.79%								
SDI is Ethanol	99.95%		N	1000	N	N	N	S-56	Validated
Methyl Isobutyl Ketone	0.01%		N	50	75	38C-582-R2	Unclassified	S-18	Validated
Methanol	0.04%		N	S-200	S-250	N	N	247	Operational
								S-59	Validated
Ethyl Acetate 85-88%, PM-3640	5.25%								
PM-3640 is Ethyl Acetate 95-98% Ethanol SD35A 200 Proof	90.53% 9.47%		N	400	N	N	N	S-49	Validated
SD35A is Ethanol 100 Parts Ethyl Acetate 4.3 Parts			N	1000	N	N	N	S-56	Validated
			N	400	N	N	N	S-49	Validated
Methyl Isobutyl Ketone	0.96%		N	50	75	38C-582-R2	Unclassified	S-18	Validated

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CHEMICAL DIV		DIV	TLV CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
ANHYDROL Solvents S&I (cont)									
ANHYDROL® Special 190									
Gov Form A1, PM-4081									
Ethanol SD3A, 190 Proof	90.35%								
SD3A is Ethanol 100 Parts			N	1000	N	N	N	S-56	Validated
Methanol 5 Parts			N	S-200	S-250	N	N	247	Operational
								S-59	Validated
Isopropanol 99%	8.76%		N	400	500	N	N	S-49	Validated
Methyl Isobutyl Ketone	0.89%		N	50	75	38C-5B2-R2	Unclassified	S-18	Validated
ANHYDROL® Special 190									
Gov Form AM, PM-4079									
Ethanol SD3A 190 Proof	90.28%								
SD3A is Ethanol 100 Parts			N	1000	N	N	N	S-56	Validated
Methanol 5 Parts			N	S-200	S-250	N	N	247	Operational
								S-59	Validated
Methanol	8.83%		N	S-200	S-250	N	N	247	Operational
								S-59	Validated
Methyl Isobutyl Ketone	0.89%		N	50	75	38C-5B2-R2	Unclassified	S-18	Validated
ANHYDROL® Special 190									
Gov Form B, PM-4157									
Ethanol SD3A, 190 Proof	90.32%								
SD3A is Ethanol 100 Parts			N	100	N	N	N	S-56	Validated
Methanol 5 Parts			N	S-200	S-250	N	N	247	Operational
								S-59	Validated
Isopropanol 99%	4.38%		N	400	500	N	N	S-49	Validated
Methanol	4.40%		N	S-200	S-250	N	N	247	Operational
								S-59	Validated
Methyl Isobutyl Ketone	0.89%		N	50	75	38C-5B2-R2	Unclassified	S-18	Validated

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CHEMICAL DIV		DIV	TLV CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
ANHYDROL Solvents S&I (cont)									
ANHYDROL ® Special 190									
Gov Form C, PM-4085									
Ethanol SD3A, 190 Proof	93.94%								
SD3A is Ethanol 100 Parts		N	1000	N	N	N	S-56	Validated
Methanol 5 Parts		N	S-200	S-250	N	N	247	Operational
							S-59	Validated
Methyl Isobutyl Ketone	0.93%	N	50	75	38C-5B2-R2	Unclassified	S-18	Validated
Ethyl Acetate 85-88%, PM-3640	5.13%							
PM-3640 is Ethyl Acetate 95-98%	90.53%	N	400	N	N	N	S-49	Validated
Ethanol SD-35A	9.47%							
SD35A is Ethanol 100 Parts		N	1000	N	N	N	S-56	Validated
Ethyl Acetate 4.3 Parts		N	400	N	N	N	S-49	Validated
ANHYDROL ® Special 190									
Gov Form 01, PM-4080									
Ethanol SD3A, 190 Proof	86.56%								
SD3A is Ethanol 100 Parts		N	1000	N	N	N	S-56	Validated
Methanol 5 Parts		N	S-200	S-25	N	N	247	Operational
							S-59	Validated
Isopropanol 99%	12.59%	N	400	500	N		S-49	Validated
Methyl Isobutyl Ketone	0.85%	N	50	75	38C-5B2-R2	Unclassified	S-18	Validated
ANHYDROL ® Special 190									
Gov Form OM, PM-4078									
Ethanol SD3A, 190 Proof	86.46%								
SD3A is Ethanol 100 Parts		N	1000	N	N	N	S-56	Validated
Methanol 5 Parts		N	S-200	S-250	N	N	247	Operational
							S-59	Validated
Methanol	12.69%	N	S-200	S-250	N	N	247	Operational
							S-59	Validated
Methyl Isobutyl Ketone	0.85%	N	50	75	38C-5B2-R2	Unclassified	S-18	Validated

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CHEMICAL DIV		DIV	TLV CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
ANHYDROL Solvents S&I (cont)									
ANHYDROL ® Special 200									
Gov Form AI, PM-4082									
Ethanol SD3A, 200 Proof									
SD3A is Ethanol 100 Parts			N	1000	N	N	N	S-56	Validated
Methanol 5 Parts			N	S-200	S-250	N	N	247	Operational
								S-59	Validated
Isopropanol 99%	8.95%		N	400	500	N	N	S-49	Validated
Methyl Isobutyl Ketone	0.91%		N	50	75	38C-5B2-R2	Unclassified	S-18	Validated
ANHYDROL ® Special 200									
Gov Form PM-4083									
Ethanol SD3A, 200 Proof	90.07%								
SD3A is Ethanol 100 Parts			N	1000	N	N	N	S-56	Validated
Methanol 5 Parts			N	S-200	S-250	N	N	247	Operational
								S-59	Validated
Methanol	9.02%		N	S-200	S-250	N	N	247	Operational
								S-59	Validated
Methyl Isobutyl Ketone	0.91%		N	50	75	38C-5B2-R2	Unclassified	S-18	Validated
ANHYDROL ® Special 200									
Gov Form B, PM-4135									
Ethanol SD3A 200 Proof	90.11%								
SD3A is Ethanol 100 Parts			N	1000	N	N	N	S-56	Validated
Methanol 5 Parts			N	S-200	S-250	N	N	247	Operational
								S-59	Validated
Isopropanol 99%	4.47%		N	400	500	N	N	S-49	Validated
Methyl Isobutyl Ketone	0.91%		N	50	75	38C-5B2-R2	N	S-18	Validated
Methanol	4.51%		N	S-200	S-250	N	N	247	Operational
								S-59	Validated

UCC 000481

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CHEMICAL DIV		DIV	TLV CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
ANHYDROL Solvents S&I (cont)									
ANHYDROL ® Special 200									
Gov Form C, PM-4084									
Ethanol SD3A 200 Proof	93.71%								
SD3A is Ethanol 100 Parts			N	1000	N	N	N	S-56	Validated
Methanol 5 Parts			N	S-200	S-250	N	N	247	Operational
								S-59	Validated
Methyl Isobutyl Ketone	0.95%		N	50	75	38C-582-R2	Unclassified	S-18	Validated
Ethyl Acetate 85-88% PM-3640									
PM-3640 is Ethyl Acetate 95-98%	90.53%		N	400	N	N	N	S-49	Validated
Ethanol SD35A 200 Proof	9.47%								
SD-35A is Ethanol 100 Parts			N	1000	N	N	N	S-56	Validated
Ethyl Acetate 4.3 Parts			N	400	N	N	N	S-49	Validated
ANHYDROL ® Special 200									
Gov Form DI, PM-4176									
Ethanol SD3A 200 Proof	86.27%								
SD3A is Ethanol 100 Parts			N	1000	N	N	N	S-56	Validated
Methanol 5 Parts			N	S-200	S-250	N	N	247	Operational
								S-59	Validated
Isopropanol 99%	12.86%		N	400	500	N	N	S-49	Validated
Methyl Isobutyl Ketone	0.87%		N	50	75	38C-582-R2	Unclassified	S-18	Validated
ANHYDROL ® Special 200									
Gov Form DM, PM-4217									
Ethanol SD3A 200 Proof	86.18%								
SD3A is Ethanol 100 Parts			N	1000	N	N	N	S-56	Validated
Methanol 5 Parts			N	S-200	S-250	N	N	247	Operational
								S-59	Validated
Methanol	12.95%		N	S-200	S-250	N	N	247	Operational
								S-59	Validated
Methyl Isobutyl Ketone	0.87%		N	50	75	38C-582-R2	Unclassified	S-18	Validated

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CHEMICAL DIV	DIV	TLV CETL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
n-Butanol	S&I	S-50	N	N	N	N	S-66	Validated
Butyl Acetate	S&I	N	150	200	N	N	S-46	Validated
Butyl Carbitol Acetate	S&I	N	N	N	N	N	N	N
Butyl Cellosolve Acetate	S&I	N	N	N	N	N	N	N
Butyraldehyde	S&I	N	N	N	N	N	N	N
Bisphenol A	S&I	N	N	N	N	N	N	N
CARBITOL Acetate	S&I	N	N	N	N	N	N	N
CELLOSOLVE Acetate	S&I	N	S-50	S-100	N	N	S-41	Validated
Crotonaldehyde	S&I	N	2	6	N	N	285	Proposed
Cumene	S&I	N	S-50	S-75	N	N	S-23	Validated
Diacetone Alcohol	S&I	N	50	75	N	N	S-55	Validated
Diethyl Sulfate	S&I	N	1	N	38C-2Q1.2-R2	Tentative	N	N
Diisobutyl Carbinol	S&I	N	N	N	N	N	N	N
Diisobutyl Ketone	S&I	N	25	N	N	N	S-358	Validated
Ethanol	S&I	N	1000	N	N	N	S-56	Validated
Ethanol CO-19								
Methyl Isobutyl Ketone, 4 gallon		N	50	75	38C-5B2-R2	Unclassified	S-18	Validated
Kerosene or Gasoline, 1 gallon			aromatic cont det TLV		N	N	N	N
Ethanol, 100 gallons		N	1000	N	N	N	S-56	Validated

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CHEMICAL DIV	DIV	TLV CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
Ethanol S&I (cont)								
Ethanol CD-20								
Unleaded gasoline, 5 gallon	N		aromatic cont det TLV	N	N	N	N	N
Ethanol, 100 gallon	N		1000	N	N	N	S-56	Validated
Ethanol SD-1								
Methanol 4 Parts	N		S-200	S-250	N	N	S-59	Validated
Methyl Isobutyl Ketone 1 Part	N		50	75	38C-582-R2	Unclassified	S-18	Validated
Ethanol 100 Parts	N		1000	N	N	N	S-56	Validated
Ethanol SD-2B								
Toluene 1/2 Part	N		S-100	S-150	38C-105-R2	Unclassified	S-18	Validated
Ethanol 100 Parts	N		1000	N	N	N	S-56	Validated
Ethanol SD-3A								
Methanol 5 Parts	N		S-200	S-250	N	N	S-59	Validated
Ethanol 100 Parts	N		1000	N	N	N	S-56	Validated
Ethanol SD-29C								
CELLOSOLVE SOLVENT 1 Part	N		S-50	S-100	38C-7046-R2a	Unclassified	S-361	Validated
Ethanol 100 Parts	N		1000	N	N	N	S-56	Validated
Ethanol SD-29E								
Ethyl Acetate 1 Part	N		400	N	N	N	S-49	Validated
Ethanol 100 Parts	N		1000	N	N	N	S-56	Validated
Ethanol SD-29G								
Diethylamine 1 Part	N		10	25	N	N	S-139	Validated
Ethanol 100 Parts	N		1000	N	N	N	S-56	Validated
Ethanol SD-30								
Methanol 10 Parts	N		S-200	S-250	N	N	S-59	Validated
Ethanol 100 Parts	N		1000	N	N	N	S-56	Validated
Ethanol SD-35A								
Ethyl Acetate 4.3 Parts	N		400	N	N	N	S-49	Validated
Ethanol 100 Parts	N		1000	N	N	N	S-56	Validated
Ethanol SD-36								
Sodium Hydroxide, 50% 17.5 lbs		2 mg/m3	N	N	N	N	S-381	Validated
Ethanol 100 gallons	N		1000	N	N	N	S-56	Validated

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CHEMICAL DIV	DIV	TLV CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
Ethanol S&I (cont)								
Ethanol SD-36A								
Ammonium Hydroxide 27-30% 3 gallons		N	25	35	38C-1P7-R2a	Unclassified	S-347	Validated
Ethanol 100 gallons		N	1000	N	N	N	S-56	Validated
Ethanol SD-37L								
Eucalyptol		N	N	N	N	N	N	N
Thymol 8.3 lbs any combination		N	N	N	N	N	N	N
Menchol		N	N	N	N	N	N	N
Ethanol 100 gallons		N	1000	N	N	N	S-56	Validated
Ethanol SD-38B								
Menthol		N	N	N	N	N	N	N
Methyl Silicylate		N	N	N	N	N	N	N
Carvone 10 lbs any combination		N	N	N	N	N	N	N
Oil of Pepperment		N	N	N	N	N	N	N
Ethanol 100 gallons		N	1000	N	N	N	S-56	Validated
Ethanol SD-39C								
Diethyl Phihalate 1 gallon		N	5 mg/m^3	N	N	N	N	N
Ethanol 100 gallons		N	1000	N	N	N	S-56	Validated
Ethanol SD-40								
tert-Butanol 1 Part		N	100	150	N	N	S-63	Validated
Brucine Sulfate 1.5 oz		N	N	N	N	N	N	N
Ethanol 100 gallon		N	1000	N	N	N	S-56	Validated
Ethanol SD-40B								
tert-Butanol 1 Part		N	100	150	N	N	S-63	Validated
Bitrex 1/16 oz		N	N	N	N	N	N	N
Ethanol 100 gallons		N	1000	N	N	N	S-56	Validated
2-Ethylbutanol	S&I	N	N	N	N	N	N	N
2-Ethylbutyraldehyde	S&I	N	N	N	N	N	N	N
2-Ethylbutyric Acid	S&I	N	N	N	N	N	N	N
2-Ethylhexaldehyde	S&I	N	N	N	N	N	N	N

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CHEMICAL DIV		DIV	TLV CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
2-Ethylhexanol		S&I	N	N	N	N	N	N	N
2-Ethylhexoic Acid		S&I	N	N	N	N	N	N	N
FLEXOL Plasticizer 3GH		S&I	N	N	N	N	N	N	N
FLEXOL Plasticizer 4GO		S&I	N	N	N	N	N	N	N
Glyceryl Triacetate		S&I	N	N	N	N	N	N	N
Glycol Diacetate		S&I	N	N	N	N	N	N	N
Hexylene Glycol		S&I	25	N	N	38C-6T3-R2	Unclassified	N	N
Hexylene Glycol Diacetate		S&I	N	N	N	N	N	N	N
Hydrogen		S&I	X	Asphyxiant	N	N	N	N	N
Hydroxyethyl Cellulose See CELLOSIZE Hydroxyethyl Cellulose									
Isobutanol		S&I	N	50	75	N	N	S-64	Validated
Isobutyl Acetate		S&I	N	150	175	N	N	S-44	Validated
Isobutyl Heptyl Ketone		S&I	N	N	N	N	N	N	N
Isobutyraldehyde		S&I	N	N	N	N	N	N	N
Isopentaldehyde		S&I							
Valeraldehyde	60%		N	50	N	N	N	N	N
2-Methyl-1-Butyraldehyde	35%	N	N	N	N	N	N	N	N
3-Methyl-1-Butyraldehyde	5%	N	N	N	N	N	N	N	N
Isopentanoic Acid		S&I							
Valeric Acid	60%		N	N	N	N	N	N	N
2-Methyl-1-Butyric Acid	35%		N	N	N	N	N	N	N
3-Methyl-1-Butyric Acid	5%		N	N	N	N	N	N	N

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CHEMICAL DIV	DIV	TLV CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
Isophorone	S&I	5	N	N	38C-N1C1-R2	Unclassified	S-367	Validated
Isopropanol	S&I	N	400	500	N	N	S-65	Validated
Isopropyl Acetate	S&I	N	250	310	N	N	N	N
Isopropyl Ether	S&I	N	250	310	N	N	S-368	Validated
Mesityl Oxide	S&I	N	15	25	N	N	S-12	Validated
Methyl Amyl Alcohol	S&I	N	S-25	S-40	N	N	S-60	Validated
2-Methyl-1-Butanol	S&I	N	N	N	N	N	N	N
2-Methylbutyraldehyde	S&I	N	N	N	N	N	N	N
Methyl CELLOSOLVE Acetate	S&I	N	S-25	S-35	N	N	S-39	Validated
Methyl Ethyl Ketone	S&I	N	200	300	N	N	127 S-3	Accepted Validated
Methyl Isobutyl Ketone	S&I	N	50	75	38C-582-R2	Unclassified	S-18	Validated
2-Methyl-1-Pentanol	S&I	N	N	N	N	N	N	N
Methyl Phenyl Ketone	S&I	N	N	N	N	N	N	N
Alpha-Methyl Styrene	S&I	N	500	100	N	N	S-26	Validated
n-Pentanol See n-Valeraldehyde	S&I							
n-Pentanoic Acid See Valeric Acid	S&I							
n-Pentanol	S&I	N	N	N	N	N	N	N

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CHEMICAL DIV		DIV	TLV CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
Phenol		S&I	N	S-5	S-10	N	N	S-330	Validated
Primary Amyl Acetate		S&I							
n-Amyl Acetate	60.0%		N	100	150	N	N	S-51	Validated
2-Methyl-1-Butyl Acetate	35%		N	N	N	N	N	N	N
3-Methyl-1-Butyl Acetate	5%		N	N	N	N	N	N	N
Primary Amyl Alcohol		S&I							
n-Amyl Alcohol (1-Pentanol)	60%		N	N	N	N	N	N	N
2-Methyl-1-Butanol			N	N	N	N	N	N	N
3 Methyl-1-Butanol			N	N	N	N	N	N	N
n-Propanol		S&I	N	S-200	S-250	N	N	S-62	Validated
Propionaldehyde		S&I	N	N	N	N	N	N	N
Propionic Acid		S&I	N	10	15	N	N	N	N
n-Propyl Acetate		S&I	N	200	250	N	N	S-48	Validated
SYNASOL Solvents		S&I							
SYNASOL 190 Gov Form 1, PM-41									
Ethanol SDI, 190 Proof	93.58%								
SDI is Ethanol 100 Parts			N	1000	N	N	N	S-56	Validated
Methanol 4 Parts			N	S-200	S-250	N	N	S-59	Validated
MIBK 1 Part			N	50	75	38C-5B2-R2	Unclassified	S-18	Validated
Ethyl Acetate 85-88%, PM-3640	5.619%								
PM-3640 is Ethyl Acetate 95-98%	90.53%		N	400	N	N	N	S-49	Validated
Ethanol SD35A 200 Proof	9.47%								
SD35A is Ethyl Acetate 4.3 Parts			N	400	N	N	N	S-49	Validated
Ethanol 100 Parts			N	1000	N	N	N	S-56	Validated
BRONOCO Rubber Solvent	0.799%		U*	U	U	U	U	U	U

*Unknown

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CHEMICAL DIV	DIV	TLV CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
SYNASOL Solvents S&I (cont)								
SYNASOL 190 Gov Form 3, PM-3224								
Ethanol SDI 190 Proof 96.74%								
SDI is Ethanol 100 Parts		N	1000	N	N	N	S-56	Validated
Methanol 4 Parts		N	S-200	S-250	N	N	S-59	Validated
MIBK 1 Part		N	50	75	38C-5B2-R2	Unclassified	S-18	Validated
Ethyl Acetate 85-88%, PM-3640 1.47%								
PM-3640 is Ethyl Acetate 90.53%		N	400	N	N	N	S-49	Validated
95-98%								
Ethanol SD35A 9.47%								
200 Proof								
Ethanol SD35A is Ethyl Acetate 4.3 Parts		N	400	N	N	N	S-49	Validated
Ethanol 100 Parts		N	1000	N	N	N	S-56	Validated
BRONOCO Rubber Solvent 0.825%		U	U	U	U	U	U	U
Methyl Isobutyl Ketone 0.9550%		N	50	75	38C-5B2-R2	Unclassified	S-18	Validated
SYNASOL 200 Gov Form 1, PM-100								
Ethanol SDI 200 Proof 93.42%								
SDI is Ethanol 100 Parts		N	1000	N	N	N	S-56	Validated
Methanol 4 Parts		N	S-200	S-250	N	N	S-59	Validated
MIBK 1 Part		N	50	75	38C-5B2-R2	Unclassified	S-18	Validated
Ethyl Acetate 95-98%, PM-3640 5.61%								
PM-3640 is Ethyl Acetate 90.53%		N	400	N	N	N	S-49	Validated
95-98%								
Ethanol SD35A 9.47%								
200 Proof								
Ethanol SD35A is Ethyl Acetate 4.3 Parts		N	400	N	N	N	S-49	Validated
Ethanol 100 Parts		N	1000	N	N	N	S-56	Validated
BRONOCO Rubber Solvent 0.818%		U	U	U	U	U	U	U

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CHEMICAL DIV	DIV	TLV CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
SYNASOL Solvents S&I (cont)								
SYNASOL 200 Gov Form 3, PM-509								
Ethanol SDI 200 Proof	96.658%							
SDI is Ethanol 100 Parts		N	1000	N	N	N	S-56	Validated
Methanol 4 Parts		N	S-200	S-250	N	N	S-59	Validated
MIBK 1 Part		N	50	75	38C-582-R2	Unclassified	S-18	Validated
Ethyl Acetate 85-88%, PM-3640	1.516%							
PM-3640 is Ethyl Acetate 95-98%	90.53%	N	400	N	N	N	S-49	Validated
Ethanol SD35A 200 Proof	9.47%							
Ethanol SD35A is Ethyl Acetate 4.3 Parts		N	400	N	N	N	S-49	Validated
Ethanol 100 Parts		N	1000	N	N	N	S-56	Validated
BRONOCO Rubber Solvent	0.846%	U	U	U	U	U	U	U
Methyl Isobutyl Ketone	0.980%	N	50	75	38C-582-R2	Unclassified	S-18	Validated
SYNASOL 200 Gov Form 5, PM-1165								
Ethanol SDI 200 Proof	96.39%							
SDI is Ethanol 100 Parts		N	1000	N	N	N	S-56	Validated
Methanol 4 Parts		N	S-200	S-250	N	N	S-59	Validated
MIBK 1 Part		N	50	75	38C-582-R2	Unclassified	S-18	Validated
sec-Butanol	1.96%	N	100	150	N	N	S-53	Validated
Methyl Isobutyl Ketone	0.90%	N	50	75	38C-582-R2	Unclassified	S-18	Validated
BRONOCO Rubber Solvent	0.75%	U	U	U	U	U	U	U

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CHEMICAL DIV		DIV	TLV CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
SYNASOL Mixture, PM-5519									
SYNASOL PM-3224	75.40%								
PM-3224 is Ethanol SD1 200 Proof	96.742%								
SD1 is Ethanol 100 Parts			N	1000	N	N	N	S-56	Validated
Methanol 4 Parts			N	S-200	S-250	N	N	S-59	Validated
MIBK 1 Part			N	50	75	38C-582-R2	Unclassified	S-18	Validated
Ethyl Acetate 85-88%, PM-3640	1.478%								
PM-3640 is Ethyl Acetate 95-98%	90.53%		N	400	N	N	N	S-49	Validated
Ethanol SD35A 200 Proof	9.47%								
Ethanol SD35A is Ethyl Acetate	4.3 Parts		N	400	N	N	N	S-49	Validated
Ethanol 100 Parts			N	1000	N	N	N	S-56	Validated
BRONOCO Rubber Solvent	0.825%		U	U	U	U	U	U	U
Methyl Isobutyl Ketone	0.955%		N	50	75	38C-582-R2	Unclassified	S-18	Validated
Acetone	24.60%		N	1000	1250	38C-5A1-R2	Unclassified	S-1	Validated
Synthesis Gas		S&I							
Carbon Monoxide	50%		N	50	400	38C-1P2-R2	Unclassified	S-340	Validated
Hydrogen	50%		N	Asphyxiant	N	N	N	N	N
UCAR Bisphenol A		S&I	N	N	N	N	N	N	N
UCAR Solvent MBE		S&I							
n-Butanol	0-3%		S-50	N	N	N	N	S-66	Validated
2-Butanol	4-10%		N	100	150	N	N	S-53	Validated
n-Butyl Acetate	10-20%		N	150	200	N	N	S-47	Validated
2-Butyl Acetate	40-50%		N	200	250	N	N	S-46	Validated
2-Butyl Formate	4-8%		N	N	N	N	N	N	N
Ethyl Butyrate	1-3%		N	N	N	N	N	N	N
Ethyl Propinate	2-7%		N	N	N	N	N	N	N
Isobutyl Propinate	0-1%		N	N	N	N	N	N	N
Methyl-n-Butyrate	3-10%		N	N	N	N	N	N	N
n-Propyl Acetate	5-10%		N	200	250	N	N	S-48	Validated
Propyl Propinate	0-2%		N	N	N	N	N	N	N

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CHEMICAL DIV		DIV	TLV CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
UCAR Solvent TCM		S&I							
UCAR Wellester TCM		S&I							
UCON Frothers		S&I							
R-122, PM-5706									
Isophorone	70.00%		5	N	N	38C-NICI-R2	Unclassified	S-367	Validated
Frother R-23	30.00%								
Frother R-23 is			U	U	U	U	U	U	U
R-133, PM-5670									
Methyl Amyl Alcohol	70.00%		N	S-25	S-40	N	N	S-60	Validated
Isophorone Residues	30.00%								
Isophorone Residues are			U	U	U	U	U	U	U
R-149, PM-5724									
UCON Frother R-70	50.00%								
R-70 is			U	U	U	U	U	U	U
HCO Alcohols No. 2									
HCO Alcohols No. 2 are			U	U	U	U	U	U	U
R-206, PM-5793									
Methyl Amyl Alcohol	47.0%		N	S-25	S-40	N	N	S-60	Validated
UCON Frother R-23	53.0%								
R-23 is			U	U	U	U	U	U	U
R-207, PM-5832									
Isophorone	60.0%		5	N	N	38C-NICI-R2	Unclassified	S-367	Validated
UCON Frother R-23									
R-23 is			U	U	U	U	U	U	U
R-210, PM-5897									
Methyl Amyl Alcohol	90.0%		5	N	N	38C-NICI-R2	Unclassified	S-367	Validated
UCON Frother R-27	10.0%								
R-27 is			U	U	U	U	U	U	U

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CHEMICAL DIV	DIV	TLV CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
Valeraldehyde	S&I	N	50	N	N	N	N	N
n-Valeric Acid	S&I	N	N	N	N	N	N	N

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CHEMICAL DIV	DIV	TLV CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
Aloxy Siloxanes	SUI							
Bicyclononadiene	SUI	N	N	N	N	N	N	N
Bis (dimethylaminoethyl) ether	SUI	N	N	N	N	N	N	N
n-Butyl Chloride	SUI	N	N	N	N	N	N	N
Dichlorosilane	SUI	N	N	N	N	N	N	N
Dicyclopentadiene	SUI	N	5	N	38C-M185-R2	Accepted	N	N
Dimethylaminodimethylpropionamide	SUI	N	N	N	N	N	N	N
Dinitrotoluene	SUI	N	S-1.5 mg/m^3	S-5 mg/m^3	N	N	S-215	Validated
Ethylidenenorbornene	SUI	5	N	N	38C-S2811-R2	Unclassified	N	N
Glycerine	SUI	N	MIST 10 mg/M^3	N	N	N	N	N
Methyl Chloride	SUI	N	50	100	N	N	201 S-99	Proposed Validated
N-Methylmorpholine	SUI	N	N	N	N	N	N	N
NIAX Activators	SUI							
NIAX Polyols	SUI							

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UCC 000495

CHEMICAL DIV	DIV	TLV CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
NIAX Blowing Agents	SUI							
11 (Trichlorofluoromethane)		N	1000	1250	N	N	S-102	Validated
11B (PM-3825)								
11C (PM-5458)								
11D (PM-5563)								
12 (Dichlorodifluoromethane)		N	1000	1250	N	N	S-111	Validated
NIAX Catalyst	SUI							
NIAX Isocyanates	SUI							
Polypropylene Glycols	SUI	N	N	N	N	N	N	N
Propylene Oxide	SUI	N	20	UCC 100	38C-K2C-R2	Accepted	S-75	Validated
N,N,N,N-tetramethyl-1,3-butanediamine	SUI	N	N	N	N	N	N	N
Toluene	E&HC	N	S-100	S-150	38C-10S-R2	Unclassified	S-343	Validated
Tolylenediamine	SUI	N	UCC 0.1	N	N	N	N	N
Tolylene diisocyanate	SUI	N	0.02	N	38C-B22N2-R2a	Unclassified	141 326	Operational Operational
Trichlorofluoromethane (UCON 11)	SUI	N	1000	1250	N	N	S-102	Validated
Trichlorosilane	SUI	N	N	N	N	N	N	N

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CHEMICAL DIV	DIV	TLV CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
UCON Fluorocarbons	SUI							
UCON-11 (Monofluorotrichloromethane)		N	1000	1250	N	N	S-102	Validated
UCON-12 (Difluorodichloromethane)		N	1000	1250	N	N	S-111	Validated
UCON-21 (Monochlorodifluoromethane)		N	1000	1250	N	N	N	N
UCON-113 (Trifluorotrichloroethane)		N	1000	1250	N	N	S-129	Validated
UCON-114 (Tetrafluorodichloroethane)		N	N	N	N	N	N	N
UCON Food Freezant	SUI							
Vinyl Cyclohexene	SUI	N	N	N	N	N	N	N
Vinyl Norbornene	SUI	N	N	N	N	N	N	N

UCC 000496

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CHEMICAL DIV		DIV	TLV CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
UCAR Runway Deicers EOG (cont)									
UCAR Runway Deicer 4, PM-5977									
Ethylene Glycol	59.984%		Vapor 50	Part 10	Part 20	38C-70W6-R2a	Unclassified	338	Proposed
Urea, 50% Aqueous	30.000%		N	N	N	N			
Water, Demineralized	9.000%								
Dipotassium Hydrogen Phosphate	1.000%		N	N	N	N	N	N	N
Sodium Flouride	0.010%		N	N	N	N	N	N	N
Dye, Alizarine Astrol B	0.006%		N	N	N	N	N	N	N
UCARSAN Sanitizers		SCP							
UCARSAN Sanitizer 402, PM-5910									
Water, Demineralized	97.680%								
UCARCIDE 250 (Glutaraldehyde 50%)	2.000%		0.2	N	N	38C-4Q5-R2a	Unclassified	N	N
TERGITOL 15-S-9	0.300%		N	N	N	N	N	N	N
Perfume Compound 46616	0.020%		N	N	N	N	N	N	N
UCARSAN Sanitizer 420, PM-5917									
Water, Demineralized	76.800%								
UCARCIDE 250 (Glutaraldehyde 50%)	2.000%		0.2	N	N	38C-4Q5-R2a	Unclassified	N	N
TERGITOL 15-S-9	3.000%		N	N	N	N	N	N	N
Perfume Compound 46616	0.020%		N	N	N	N	N	N	N
UCAR Solvent MBE		S&I							
n-Butanol	0-3%		S-50	N	N	N	N	S-66	Validated
2-Butanol	4-10%		N	100	150	N	N	S-53	Validated
n-Butyl Acetate	10-20%		N	150	200	N	N	S-47	Validated
2-Butyl Acetate	40-50%		N	200	250	N	N	S-46	Validated
2-Butyl Formate	4-8%		N	N	N	N	N	N	N
Ethyl Butyrate	1-3%		N	N	N	N	N	N	N
Ethyl Propinate	2-7%		N	N	N	N	N	N	N
Isobutyl Propinate	0-1%		N	N	N	N	N	N	N
Methyl-n-Butyrate	3-10%		N	N	N	N	N	N	N
n-Propyl Acetate	5-10%		N	200	250	N	N	S-48	Validated
Propyl Propinate	0-2%		N	N	N	N	N	N	N

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UCC 000498

CHEMICAL DIV	DIV	TLV CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
Acetaldehyde	S&I	N	100	150	N[1]	N	S-345	Validated
Acetic Acid	CM	N	10	15	38C-3A2-B2c	Accepted	S-169	Validated
Acetic Anhydride	CM	5	N		38C-15A2-R2a	Accepted	S-170	Validated
Acetic Esters	S&I							
Amyl Acetate		N	100	150	N	N	S-51	
Butyl Acetate		N	150	200	N	N	S-47	
Butyl Carbitol Acetate		N	N	N	N	N	N	N
Butyl Cellosolve Acetate		N	N	N	N	N	N	N
Carbitol Acetate		N	N	N	N	N	N	N
Cellosolve Acetate		N	50	100	N	N	S-41	Validated
Glyceryl Triacetate		N	N	N	N	N	N	N
Glycol Diacetate		N	N	N	N	N	N	N
Hexylene Glycol Diacetate		N	N	N	N	N	N	N
Isobutyl Acetate		N	150	187	N	N	S-44	Validated
Isopropyl Acetate		N	250	310	N	N	S-50	Validated
Methyl Cellosolve Acetate		N	S[2]-25	S-35	N	N	S-39	Validated
Primary Amyl Acetate, Mixed Isomers		N	N	N	N	N	N	N
N-Propyl Acetate		N	200	250	N	N	S-48	Validated
Triethylene Glycol Diacetate		N	N	N	N	N	N	N
Acetone	S&I	N	1000	1250	38C-5A1-R2	Unclassified	127 S-1	Operational
Acetophenone	S&I	N	N	N	N	N	N	N

[1] None

[2] Skin (TLV column)

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UCC 000499

CHEMICAL DIV		DIV	TLV CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
Acetylene		E&IC	N	A	N	N	N	N	N
Acrolein		CM	N	0.1	0.3	N	N	118 211	Tentative Tentative
Acrylic Acid		CM	N	UCC 2	N	38C-3F1-R2	Unclassified	N	N
Aircraft Deicing Fluids		EOG							
ADF-2-40-D									
UCAR-ADF-2, PM-5178	42.75%								
PM5178 is: PM-5234	99.998%								
Dye, Orasol Red G	0.001%		N	N	N	N	N	N	N
Dye, Uranine, Conc	0.001%		N	N	N	N	N	N	N
PM-5234 is: Ethylene Glycol	80.954%		Vapor 50	P10mg/M^3	P20mg/M^3	38C-70W6-R2a		338	Proposed
Diethylene Glycol	10.000%		N	N	N	N	N	N	N
Water, Demineralized	7.85%								
Potassium Phosphate, Dib	0.50%		N	N	N	N	N	N	N
Tolyltriazole	0.50%		N	N	N	N	N	N	N
Sodium Di-2-Hexylsulfosuc	0.133%		N	N	N	N	N	N	N
Potassium Hydroxide	0.063		2 mg/m^3			N	N	N	
Dye, Orasol Red G	0.001%		N	N	N	N	N	N	N
Dye, Uranine Conc	0.001%		N	N	N	N	N	N	N
ADF-2-50-D, PM-5196									
PM-5234 (See above)	52.798%								
Water, Demineralized	47.200%								
Dye, Orasol Red G	0.001%		N	N	N	N	N	N	N
Dye, Uranine Conc	0.001%		N	N	N	N	N	N	N
UCAR ADF-2, PM-5234									
See above									
UCAR ADF-2-D, PM-5178									
See above									

A-Asphyxiant

P-Particulate

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CHEMICAL DIV	DIV	TLV CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
Alcohols, Secondary	EOD							
Alkylbenzenes	EOD							
Allyl Methacrylate	SCP	N	N	N	N	N	N	N
AMIDEL	SCP							
N-(2-Aminoethyl)ethanolamine	EOD	N	N	N	N	N	N	N
N-Aminoethylpiperazine	EOD	N	N	N	N	N	N	N
Amyl Acetate	S&I	N	100	150	N	N	S-51	
Amyl Alcohol, Primary	S&I	N	N	N	N	N	N	N
Aloxy Siloxanes	SUI							

UCC 000500

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CHEMICAL DIV		DIV	TLV CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
ANHYDROL Solvents		S&I							
ANHYDROL® 200 Proof Gov Form A1, PM-1473									
Ethanol SDI, 190 Proof	90.40%								
SDI is Ethanol	99.95%		N	1000	N	N	N	S-56	Validated
Methyl Isobutyl Ketone	0.01%		N	50	75	38C-5B2-R2	Unclassified	S-18	Validated
Methanol	0.04%		N	S-200	S-250	N	N	247	Operational
								S-59	Validated
Isopropanol	8.70%		N	400	500	N	N	S-49	Validated
Methyl Isobutyl Ketone	0.90%		N	50	75	38C-5B2-R2	Unclassified	S-18	Validated
ANHYDROL® 200 Proof Gov Form A1, PM-1474									
Ethanol SDI, 200 Proof	90.20%								
SDI is Ethanol	99.95%		N	1000	N	N	N	S-56	Validated
Methyl Isobutyl Ketone	0.01%		N	50	75	38C-5B2-R2	Unclassified	S-18	Validated
Methanol	0.04%		N	S-200	S-250	N	N	247	Operational
								S-59	Validated
Isopropanol	8.90%		N	400	500	N	N	S-49	Validated
Methyl Isobutyl Ketone	0.90%		N	50	75	38C-5B2-R2	Unclassified	S-18	Validated
ANHYDROL® 200 Proof Gov Form B, PM-1779									
Ethanol SDI, 200 Proof	90.10%								
SDI is Ethanol	99.95%		N	1000	N	N	N	S-56	Validated
Methyl Isobutyl Ketone	0.01%		N	50	75	38C-5B2-R2	Unclassified	S-18	Validated
Methanol	0.04%		N	S-200	S-250	N	N	247	Operational
								S-59	Validated
Methanol	4.50%		N	S-200	S-250	N	N	247	Operational
								S-59	Validated
Isopropanol	4.50%		N	400	500	N	N	S-49	Validated
Methyl Isobutyl Ketone	0.90%		N	50	75	38C-5B2-R2	Unclassified	S-18	Validated

UCC 000501

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CHEMICAL DIV		DIV	TLV CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
ANHYDROL Solvents S&I (cont)									
ANHYDROL® 190 Proof									
Gov Form B, PM-3560									
Ethanol SDI, 190 Proof	90.32%								
SDI is Ethanol	99.95%	N	1000	N	N	N	S-56	Validated
Methyl Isobutyl Ketone	0.01%	N	50	75	38C-582-R2	Unclassified	S-18	Validated
Methanol	0.04%	N	S-200	S-250	N	N	247	Operational
							S-59	Validated
Isopropanol, 99%	4.38%	N	400	500	N	N	S-49	Validated
Methyl Isobutyl Ketone	0.89%	N	50	75	38C-582-R2	Unclassified	S-18	Validated
Methanol	4.41%	N	S-200	S-250	N	N	247	Operational
							S-59	Validated
ANHYDROL® METHANOL BLEND, PM-5946								
PM-4082	83.26%							
See PM-4082 for Composition								
Methanol	16.74%	N	S-200	S-250	N	N	247	Operational
							S-49	Validated
ANHYDROL® SPECIAL 200, PM-3153								
Ethanol SDI, 200 Proof	93.79%							
SDI is Ethanol	99.95%	N	1000	N	N	N	S-56	Validated
Methyl Isobutyl Ketone	0.01%	N	50	75	38C-582-R2	Unclassified	S-18	Validated
Methanol	0.04%	N	S-200	S-250	N	N	247	Operational
							S-59	Validated
Ethyl Acetate 85-88%, PM-3640	5.25%							
PM-3640 is Ethyl Acetate 95-98%	90.53%	N	400	N	N	N	S-49	Validated
Ethanol SD35A 200 Proof	9.47%							
SD35A is Ethanol 100 Parts		N	1000	N	N	N	S-56	Validated
Ethyl Acetate 4.3 Parts		N	400	N	N	N	S-49	Validated
Methyl Isobutyl Ketone	0.96%	N	50	75	38C-582-R2	Unclassified	S-18	Validated

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CHEMICAL DIV	DIV	TLV CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
ANHYDROL Solvents S&I (cont)								
ANHYDROL® Special 190								
Gov Form A1, PM-4081								
Ethanol SD3A, 190 Proof	90.35%							
SD3A is Ethanol 100 Parts		N	1000	N	N	N	S-56	Validated
Methanol 5 Parts		N	S-200	S-250	N	N	247	Operational
							S-59	Validated
Isopropanol 99%	8.76%	N	400	500	N	N	S-49	Validated
Methyl Isobutyl Ketone	0.89%	N	50	75	38C-5B2-R2	Unclassified	S-18	Validated
ANHYDROL® Special 190								
Gov Form AM, PM-4079								
Ethanol SD3A 190 Proof	90.28%							
SD3A is Ethanol 100 Parts		N	1000	N	N	N	S-56	Validated
Methanol 5 Parts		N	S-200	S-250	N	N	247	Operational
							S-59	Validated
Methanol	8.83%	N	S-200	S-250	N	N	247	Operational
							S-59	Validated
Methyl Isobutyl Ketone	0.89%	N	50	75	38C-5B2-R2	Unclassified	S-18	Validated
ANHYDROL® Special 190								
Gov Form B, PM-4157								
Ethanol SD3A, 190 Proof	90.32%							
SD3A is Ethanol 100 Parts		N	100	N	N	N	S-56	Validated
Methanol 5 Parts		N	S-200	S-250	N	N	247	Operational
							S-59	Validated
Isopropanol 99%	4.38%	N	400	500	N	N	S-49	Validated
Methanol	4.40%	N	S-200	S-250	N	N	247	Operational
							S-59	Validated
Methyl Isobutyl Ketone	0.89%	N	50	75	38C-5B2-R2	Unclassified	S-18	Validated

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CHEMICAL DIV		DIV	TLV CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
ANHYDROL Solvents S&I (cont)									
ANHYDROL ® Special 190									
Gov Form C, PM-4085									
Ethanol SD3A, 190 Proof	93.94%								
SD3A is Ethanol 100 Parts			N	1000	N	N	N	S-56	Validated
Methanol 5 Parts			N	S-200	S-250	N	N	247	Operational
								S-59	Validated
Methyl Isobutyl Ketone	0.93%		N	50	75	38C-5B2-R2	Unclassified	S-18	Validated
Ethyl Acetate 85-88%, PM-3640	5.13%								
PM-3640 is Ethyl Acetate 95-98% Ethanol SD-35A	90.53% 9.47%		N	400	N	N	N	S-49	Validated
SD35A is Ethanol 100 Parts			N	1000	N	N	N	S-56	Validated
Ethyl Acetate 4.3 Parts			N	400	N	N	N	S-49	Validated
ANHYDROL ® Special 190									
Gov Form DI, PM-4080									
Ethanol SD3A, 190 Proof	86.56%								
SD3A is Ethanol 100 Parts			N	1000	N	N	N	S-56	Validated
Methanol 5 Parts			N	S-200	S-25	N	N	247	Operational
								S-59	Validated
Isopropanol 99%	12.59%		N	400	500	N		S-49	Validated
Methyl Isobutyl Ketone	0.85%		N	50	75	38C-5B2-R2	Unclassified	S-18	Validated
ANHYDROL ® Special 190									
Gov Form DM, PM-4078									
Ethanol SD3A, 190 Proof	86.46%								
SD3A is Ethanol 100 Parts			N	1000	N	N	N	S-56	Validated
Methanol 5 Parts			N	S-200	S-250	N	N	247	Operational
								S-59	Validated
Methanol	12.69%		N	S-200	S-250	N	N	247	Operational
								S-59	Validated
Methyl Isobutyl Ketone	0.85%		N	50	75	38C-5B2-R2	Unclassified	S-18	Validated

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UCC 000505

CHEMICAL DIV		DIV	TLV CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
ANHYDROL Solvents S&I (cont)									
ANHYDROL ® Special 200									
Gov Form A1, PM-4082									
Ethanol SD3A, 200 Proof									
SD3A is Ethanol 100 Parts			N	1000	N	N	N	S-56	Validated
Methanol 5 Parts			N	S-200	S-250	N	N	247	Operational
								S-59	Validated
Isopropanol 99%	8.95%		N	400	500	N	N	S-49	Validated
Methyl Isobutyl Ketone	0.91%		N	50	75	38C-5B2-R2	Unclassified	S-18	Validated
ANHYDROL ® Special 200									
Gov Form PM-4083									
Ethanol SD3A, 200 Proof	90.07%								
SD3A is Ethanol 100 Parts			N	1000	N	N	N	S-56	Validated
Methanol 5 Parts			N	S-200	S-250	N	N	247	Operational
								S-59	Validated
Methanol	9.02%		N	S-200	S-250	N	N	247	Operational
								S-59	Validated
Methyl Isobutyl Ketone	0.91%		N	50	75	38C-5B2-R2	Unclassified	S-18	Validated
ANHYDROL ® Special 200									
Gov Form B, PM-4135									
Ethanol SD3A 200 Proof	90.11%								
SD3A is Ethanol 100 Parts			N	1000	N	N	N	S-56	Validated
Methanol 5 Parts			N	S-200	S-250	N	N	247	Operational
								S-59	Validated
Isopropanol 99%	4.47%		N	400	500	N	N	S-49	Validated
Methyl Isobutyl Ketone	0.91%		N	50	75	38C-5B2-R2	N	S-18	Validated
Methanol	4.51%		N	S-200	S-250	N	N	247	Operational
								S-59	Validated

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UCC 000506

CHEMICAL DIV	DIV	TLV CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
ANHYDROL Solvents S&I (cont)								
ANHYDROL ® Special 200								
Gov Form C, PM-4084								
Ethanol SD3A 200 Proof 93.71%								
SD3A is Ethanol 100 Parts		N	1000	N	N	N	S-56	Validated
Methanol 5 Parts		N	S-200	S-250	N	N	247	Operational
							S-59	Validated
Methyl Isobutyl Ketone	0.95%	N	50	75	38C-582-R2	Unclassified	S-18	Validated
Ethyl Acetate 85-88% PM-3640								
PM-3640 is Ethyl Acetate 90.53%		N	400	N	N	N	S-49	Validated
95-98%								
Ethanol SD35A 9.47%								
200 Proof								
SD-35A is Ethanol 100 Parts		N	1000	N	N	N	S-56	Validated
Ethyl Acetate 4.3 Parts		N	400	N	N	N	S-49	Validated
ANHYDROL ® Special 200								
Gov Form DI, PM-4176								
Ethanol SD3A 200 Proof 86.27%								
SD3A is Ethanol 100 Parts		N	1000	N	N	N	S-56	Validated
Methanol 5 Parts		N	S-200	S-250	N	N	247	Operational
							S-59	Validated
Isopropanol 99%	12.86%	N	400	500	N	N	S-49	Validated
Methyl Isobutyl Ketone	0.87%	N	50	75	38C-582-R2	Unclassified	S-18	Validated
ANHYDROL ® Special 200								
Gov Form DM, PM-4217								
Ethanol SD3A 200 Proof 86.18%								
SD3A is Ethanol 100 Parts		N	1000	N	N	N	S-56	Validated
Methanol 5 Parts		N	S-200	S-250	N	N	247	Operational
							S-59	Validated
Methanol	12.95%	N	S-200	S-250	N	N	247	Operational
							S-59	Validated
Methyl Isobutyl Ketone	0.87%	N	50	75	38C-582-R2	Unclassified	S-18	Validated

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CHEMICAL DIV	DIV	TLV CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
ARDEL (Polyarylates)	SCP	N	N	N	N	N	N	N
AQUCAR	SCP							
BAKELITE EPOXY RESINS (PERACID DERIVED)	SCP							
ADMEX-790A		N	N	N	N	N	N	N
ADE C-16		N	N	N	N	N	N	N
Caprolactone		N	N	N	N	N	N	N
Cyclohexanone		N	25	100	N	N	S-19	Validated
ERL-4205								
ERL-4206								
ERL-4221								
ERL-4234								
ERL-4299								
FLEXOL PLASTICIZER EP-8		N	N	N	N	N	N	N
FLEXOL PLASTICIZER EPO		N	N	N	N	N	N	N
FLEXOL PLASTICIZER LOE		N	N	N	N	N	N	N
Benzene	E&HC	N	10	25	38C-BIAI-R2.1 38C-BIAI-R2.2	Approved Unclassified	127 S-311	Recommended Validated
Bicyclononadiene	SUI	N	N	N	N	N	N	N
N, N-Bis (3-Aminopropyl) methylamine	SCP	N	N	N	N	N	N	N
Bis (dimethylaminoethyl) ether	SUI	N	N	N	N	N	N	N
Butadiene	E&HC	N	1000	1250	N	N	S-91	Validated
Butane	E&HC	N	800	N	N	N	N	N
n-Butanol	S&I	S-50	N	N	N	N	S-66	Validated

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CHEMICAL DIV	DIV	TLV CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
1-(Butoxyethoxy)-2-Propanol	SCP	N	N	N	N	N	N	N
Butoxytriglycol	EOD	N	N	N	N	N	N	N
Butyl Acetate	S&I	N	150	200	N	N	S-46	Validated
Butyl Acrylate	CM	N	10	N	38C-2Cl-R2	Unclassified	N	N
Butyl Carbitol	EOD	N	N	N	N	N	N	N
Butyl Carbitol Acetate	S&I	N	N	N	N	N	N	N
Butyl Cellosolve	EOD	N	S-25	S-50	38C-1184-R2	Unclassified	S-76	Validated
Butyl Cellosolve Acetate	S&I	N	N	N	N	N	N	N
n-Butyl Chloride	SUI	N	N	N	N	N	N	N
Butylphenol, UCAR (para-tert)	CM	N	N	N	38C-86All	Accepted	N	N
Butyraldehyde	S&I	N	N	N	N	N	N	N
t-Butylethanolamine	SCP	N	N	N	N	N	N	N
t-Butyldiethanolamine	SCP	N	N	N	N	N	N	N
Bisphenol A	S&I	N	N	N	N	N	N	N
Caprolactone	SCP	N	N	N	N	N	N	N
epsilon-Caprolactone	SCP	N	N	N	N	N	N	N
CARBITOL Acetate	S&I	N	N	N	N	N	N	N

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UCC 000509

CHEMICAL DIV		DIV	TLV CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
CARBITOL SOLVENT (PM-600)		EOD							
CARBITOL Low Gravity	70.50%		N	N	N	N	N	N	N
Ethylene Glycol	29.50%		Vapor 50	Part 10 mg/m^3	Part 20 mg/m^3	38C-11A1-R2	Unclassified	338	Proposed
						38C-70W6-R2a	Unclassified		
CARBITOL Solvent Low Gravity		EOD	N	N	N	N	N	N	N
CARBITRON Admixture 20		CM	N	N	N	N	N	N	N
CARBOWAX Methoxy PEG's (MPEG)		EOD	N	N	N	N	N	N	N
CARBOWAX MPEG-550 Acrylate		SCP	N	N	N	N	N	N	N
CARBOWAX PEG Liquid/Solids		EOD	N	N	N	N	N	N	N
CARBOWAX TPEG 990		EOD	N	N	N	N	N	N	N
Catalyst Code Products		EOD							
CELLOSIZE HEC (all Grades)		CM 10mg/M^3	N	Dust	N	38C-10X2-R2.4	Unclassified	29CFS	Unclassified
CELLOSOLVE Acetate		S&I	N	S-50	S-100	N	N	S-41	Validated
CELLOSOLVE Acrylate		SCP	N	N	N	N	N	N	N
CELLOSOLVE Silicates		CM	N	N	N	N	N	N	N
CELLOSOLVE Solvent		EOD	N	S-50	S-100	38C-70W6-R2a	Unclassified	S-361	Validated
Coke		E&HC	N	Dust 10 mg/m^3	N	38C-10X2-R2.4	Unclassified	29CFS	Unclassified

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CHEMICAL DIV	DIV	TLV CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
Crotonaldehyde	S&I	N	2	6	N	N	285	Proposed
Cumene	S&I	N	S-50	S-75	N	N	S-23	Validated
Cyclohexanone	SCP	N	25	100	N	N	S-19	Validated
Deactivator A	EOG							
Deicing Fluid C	EOG							
Diacetone Alcohol	S&I	N	50	75	N	N	S-55	Validated
Dibutyl CARBITOL	SCP	N	N	N	N	N	N	N
Dichlorodiphenyl Sulfone	SCP	N	N	N	N	N	N	N
Dichlorosilane	SUI	N	N	N	N	N	N	N
Dicyclopentadiene	SUI	N	5	N	38C-M1B5-R2	Accepted	N	N
DIENE-205 [Bis (Cyclopentenyl) ether]	SCP	N	N	N	38C-M1B5-R2	Accepted	N	N
DIENE-221	SCP							
DIENE-234	SCP							
DIENE-299	SCP							
Diethanolamine	EOD	N	3	N	N	N	N	N

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CHEMICAL DIV	DIV	TLV CETL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
2-(N,N-Diethylamino) ethyl Acrylate	SCP	N	N	N	N	N	N	N
Diethyl Carbitol	SCP	N	N	N	N	N	N	N
Diethylene Glycol	EOG	N	N	N	N	N	N	N
Diethylenetriamine	EOD	N	S-1	S4	N	N	S-276	Validated
N,N-Diethylethanolamine	SCP	N	N	N	N	N	N	N
Di(2-ethylhexyl) Phosphoric Acid	SCP	N	N	N	N	N	N	N
Diethyl Sulfate	S&I	N	1	N	38C-2Q1.2-R2	Tentative	N	N
Diisobutyl Carbinol	S&I	N	N	N	N	N	N	N
Diisobutyl Ketone	S&I	N	25	N	N	N	S-358	Validated
Diisopropylamine	EOD	N	S-5	N	N	N	221 S-141	Proposed Validated
Dimethylaminodimethylpropionamide	SUI	N	N	N	N	N	N	N
Dimethylaminoethoxyethanol	SCP	N	N	N	N	N	N	N
Dimethylaminoethoxyethyl Acrylate	SCP	N	N	N	N	N	N	N
2-Dimethylaminopropylamine	SCP	N	N	N	N	N	N	N
N,N-Dimethylethanolamine	SCP	N	N	N	N	N	N	N
Dimethylisopropanolamine	SCP	N	N	N	N	N	N	N
2,3-Dimethylpentaldehyde	SCP	N	N	N	N	N	N	N

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UCC 000512

CHEMICAL DIV		DIV	TLV CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
Dinitrotoluene		SUJ	N	S-1.5 mg/m^3	S-5 mg/m^3	N	N	S-215	Validated
OIOL-400		EOO	N	N	N	N	N	N	N
Dioxane		SCP	N	25	UCC 50	38C-1D5-R2	Unclassified	S-360	Validated
Dipropylene Glycol		SCP	N	N	N	N	N	N	N
Dripolene		E&HC							
Benzene	39%		N	10	25	38C-B1A1-R2.1	Approved	S-311	Validated
C9 and Heavies	5.0%		U	U	U	N	N	N	N
Dicyclopentadiene	15.0%		N	5	N	38C-M1B5-R2	Accepted	N	N
Ethylbenzene	0.6%		N	100	125	N	N	S-29	Validated
Raffinate	29.0%		U	U	U	N	N	N	N
Styrene	3.5%		N	50	100	38C-B1C1-R2	Unclassified	S-30	Validated
Toluene	7.3%		N	S-100	S-150	38C-1OS-R2	Unclassified	S-343	Validated
Xylene	1.0%		N	S-100	S-150	38C-1OS-R2	Unclassified	S-318	Validated
Dustix 8		EOD							
EPOXIDIZED Oils		SCP							
FLEXOL Plasticizer EP-8			N	N	N	N	N	N	N
FLEXOL Plasticizer EPO			N	N	N	N	N	N	N
FLEXOL Plasticizer LOE			N	N	N	N	N	N	N
Ester Diol 204		SCP							
Ethanol		S&I	N	1000	N	N	N	S-56	Validated
Ethanol CD-19									
Methyl Isobutyl Ketone, 4 gallon			N	50	75	38C-582-R2	Unclassified	S-18	Validated
Kerosene or Gasoline, 1 gallon				aromatic cont det TLV		N	N	N	N
Ethanol, 100 gallons			N	1000	N	N	N	S-56	Validated

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CHEMICAL DIV	DIV	TLV CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
Ethanol S&I (cont)								
Ethanol CD-20								
Unleaded gasoline, 5 gallon		N	aromatic cont det TLV	N	N	N	N	N
Ethanol, 100 gallon		N	1000	N	N	N	S-56	Validated
Ethanol SD-1								
Methanol 4 Parts		N	S-200	S-250	N	N	S-59	Validated
Methyl Isobutyl Ketone 1 Part		N	50	75	38C-5B2-R2	Unclassified	S-18	Validated
Ethanol 100 Parts		N	1000	N	N	N	S-56	Validated
Ethanol SD-28								
Toluene 1/2 Part		N	S-100	S-150	38C-10S-R2	Unclassified	S-18	Validated
Ethanol 100 Parts		N	1000	N	N	N	S-56	Validated
Ethanol SD-3A								
Methanol 5 Parts		N	S-200	S-250	N	N	S-59	Validated
Ethanol 100 Parts		N	1000	N	N	N	S-56	Validated
Ethanol SD-29C								
CELLOSOLVE SOLVENT 1 Part		N	S-50	S-100	38C-7CW6-R2a	Unclassified	S-361	Validated
Ethanol 100 Parts		N	1000	N	N	N	S-56	Validated
Ethanol SD-29E								
Ethyl Acetate 1 Part		N	400	N	N	N	S-49	Validated
Ethanol 100 Parts		N	1000	N	N	N	S-56	Validated
Ethanol SD-29G								
Diethylamine 1 Part		N	10	25	N	N	S-139	Validated
Ethanol 100 Parts		N	1000	N	N	N	S-56	Validated
Ethanol SD-30								
Methanol 10 Parts		N	S-200	S-250	N	N	S-59	Validated
Ethanol 100 Parts		N	1000	N	N	N	S-56	Validated
Ethanol SD-35A								
Ethyl Acetate 4.3 Parts		N	400	N	N	N	S-49	Validated
Ethanol 100 Parts		N	1000	N	N	N	S-56	Validated
Ethanol SD-36								
Sodium Hydroxide, 50% 17.5 lbs		2 mg/m^3	N	N	N	N	S-381	Validated
Ethanol 100 gallons		N	1000	N	N	N	S-56	Validated

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CHEMICAL DIV	DIV	TLV CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
Ethanol S&I (cont)								
Ethanol SD-36A								
Ammonium Hydroxide 27-30% 3 gallons		N	25	35	38C-1P7-R2a	Unclassified	S-347	Validated
Ethanol 100 gallons		N	1000	N	N	N	S-56	Validated
Ethanol SD-37L								
Eucalyptol		N	N	N	N	N	N	N
Thymol 8.3 lbs any combination		N	N	N	N	N	N	N
Menchol		N	N	N	N	N	N	N
Ethanol 100 gallons		N	1000	N	N	N	S-56	Validated
Ethanol SD-38B								
Menthol		N	N	N	N	N	N	N
Methyl Silicylate		N	N	N	N	N	N	N
Carvone 10 lbs any combination		N	N	N	N	N	N	N
Oil of Peppermint		N	N	N	N	N	N	N
Ethanol 100 gallons		N	1000	N	N	N	S-56	Validated
Ethanol SD-39C								
Diethyl Phihalate 1 gallon		N	5 mg/m^3	N	N	N	N	N
Ethanol 100 gallons		N	1000	N	N	N	S-56	Validated
Ethanol SD-40								
tert-Butanol 1 Part		N	100	150	N	N	S-63	Validated
Brucine Sulfate 1.5 oz		N	N	N	N	N	N	N
Ethanol 100 gallon		N	1000	N	N	N	S-56	Validated
Ethanol SD-40B								
tert-Butanol 1 Part		N	100	150	N	N	S-63	Validated
Bitrex 1/16 oz		N	N	N	N	N	N	N
Ethanol 100 gallons		N	1000	N	N	N	S-56	Validated
Ethanolamine	EOD	N	3	6	N	N	270	Proposed
Ethoxytriglycol	EOD	N	N	N	N	N	N	N
Ethyl Acetate	CM	N	400	N	N	N	S-49	Validated

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CHEMICAL DIV	DIV	TLV CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
Ethyl Acrylate	CM	N	S-5	S-25	38C-2Cl.2-R2	Unclassified	S-35	Validated
Ethylamine	EOD	N	10	N	38C-7A2-R2	Unclassified	221	Proposed
Ethylbenzene	SCP	N	100	125	N	N	S-29	Validated
2-Ethylbutanol	S&I	N	N	N	N	N	N	N
Ethyl Butyl Ketone	SCP	N	50	75	N	N	S-16	Validated
2-Ethylbutyraldehyde	S&I	N	N	N	N	N	N	N
2-Ethylbutyric Acid	S&I	N	N	N	N	N	N	N
Ethylene	E&HC	N	Asphyxiant	N	N	N	N	N
Ethylenediamine	EOD	N	10	N	38C-18A1-R2.1	Unclassified	S-276	Validated
Ethylene Dichloride	EOD	N	UCC 5	N	38C-10S-R2	Unclassified	S-122	Validated
Ethylene Glycol	EOG	Vapor 50	Part 10 mg/M^3	Part 20 mg/m^3	38C-11A1-R2 38C-70W6-R2a	Unclassified Unclassified	338	Proposed
Ethylene Glycol Dimethacrylate	SCP	N	N	N	N	N	N	N
Ethylene Oxide	EOG	N	UCC 5	N	38C-X28-R2.2b	Approved	S-286	Validated
2-Ethylhexaldehyde	S&I	N	N	N	N	N	N	N
2-Ethyl-1,3-hexanediol	SCP	N	N	N	N	N	N	N
2-Ethylhexanol	S&I	N	N	N	N	N	N	N
2-Ethylhexoic Acid	S&I	N	N	N	N	N	N	N

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UCC 000516

CHEMICAL DIV	DIV	TLV CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
2-Ethylhexyl Acrylate	CM	N	UCC 5	UCC 10	38C-2C1-R2.1	Accepted	N	N
2-Ethylhexyl CELLOSOLVE	SCP	N	N	N	N	N	N	N
Ethylidenenorbornene	SUI	5	N	N	38C-S2B11-R2	Unclassified	N	N
Ethyl Silicates	CM	N	10	30	N	N	S-264	Validated
FLEXOL Plasticizer 3GH	S&I	N	N	N	N	N	N	N
FLEXOL Plasticizer 4GO	S&I	N	N	N	N	N	N	N
FLEXOL Plasticizer B-400	EOD	N	N	N	N	N	N	N
FLEXOL Plasticizer FP-8	SCP	N	N	N	N	N	N	N
FLEXOL Plasticizer EPO	SCP	N	N	N	N	N	N	N
FLEXOL Plasticizer LOE	SCP	N	N	N	N	N	N	N
FLEXOL Plasticizer TOF	SCP	N	N	N	N	N	N	N
FLUID AP	EOD	N	N	N	N	N	N	N
Formaldehyde	CM	N	2	N	38C-4A1-R2	Tentative	S-327	Validated
Formic Acid	CM	N	5	N	N	N	S-173	Validated
Glutaraldehyde	SCP	0.2	N	N	38C-4Q5-R2a	Unclassified	N	N
Glutaric Anhydride	SCP	N	N	N				
Glycerine	SUI	N	MIST 10 mg/M^3	N	N	N	N	N

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CHEMICAL DIV		DIV	TLV CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
Glyceryl Triacetate		S&I	N	N	N	N	N	N	N
Glycol Diacetate		S&I	N	N	N	N	N	N	N
Hexamethylenetetramine		CM	N	N	N	N	N	N	N
Hexyl CARBITOL		SCP	N	N	N	N	N	N	N
Hexyl CELLOSOLVE		SCP	N	N	N	N	N	N	N
Hexylene Glycol		S&I	25	N	N	38C-6T3-R2	Unclassified	N	N
Hexylene Glycol Diacetate		S&I	N	N	N	N	N	N	N
Hydrogen		S&I	X	Asphyxiant	N	N	N	N	N
Hydroxyethyl Cellulose See CELLOSIZE Hydroxyethyl Cellulose									
Isobutanol		S&I	N	50	75	N	N	S-64	Validated
Isobutyl Acetate		S&I	N	150	175	N	N	S-44	Validated
Isobutyl Acrylate		CM	N	N	N	38C-2C1-R2.1	Accepted	N	N
Isobutyl Heptyl Ketone		S&I	N	N	N	N	N	N	N
Isobutyraldehyde		S&I	N	N	N	N	N	N	N
Isopentaldehyde		S&I							
Valeraldehyde	60%		N	50	N	N	N	N	N
2-Methyl-1-Butyraldehyde	35%	N	N	N	N	N	N	N	N
3-Methyl-1-Butyraldehyde	5%	N	N	N	N	N	N	N	N

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CHEMICAL DIV		DIV	TLV CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
Isopentanoic Acid		S&I							
Valeric Acid	60%		N	N	N	N	N	N	N
2-Methyl-1-Butyric Acid	35%		N	N	N	N	N	N	N
3-Methyl-1-Butyric Acid	5%		N	N	N	N	N	N	N
Isophorone		S&I	5	N	N	38C-N1C1-R2	Unclassified	S-367	Validated
Isopropanol		S&I	N	400	500	N	N	S-65	Validated
Isopropenyl Acetate (Methyl Vinyl Acetate)		SCP	N	N	N	N	N	N	N
Isopropyl Acetate		S&I	N	250	310	N	N	N	N
Isopropylamine		EOD	N	5	10	N	N	221 S-147	Proposed Validated
Isopropyl CELLOSOLVE		CM	N	N	N	N	N	N	N
Isopropyl Ether		S&I	N	250	310	N	N	S-368	Validated
XROMFAX Solvent (Thiodiethylene Glycol)		SCP	N	N	N	N	N	N	N
Linear Alcohols		EOD	N	N	N	N	N	N	N
Mesityl Oxide		S&I	N	15	25	N	N	S-12	Validated
Methacrylic Acid		CM	N	20	N	N	N	N	N
Methanol		E&HC	N	S-200	S-250	N	N	247 S-59	Proposed Validated
2-Methoxy-3,4-Dihydro-2-Pyran		SCP	N	N	N	N	N	N	N
Methoxytriglycol		EOD	N	N	N	N	N	N	N

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CHEMICAL DIV	DIV	TLV CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
Methyl Amyl Alcohol	S&I	N	S-25	S-40	N	N	S-60	Validated
2-Methyl-1-Butanol	S&I	N	N	N	N	N	N	N
2-Methylbutyraldehyde	S&I	N	N	N	N	N	N	N
Methyl CARBITOL	EOD	N	N	N	N	N	N	N
Methyl CELLOSOLVE	EOD	N	S-25	S-35	38C-1181-R2	Tentative	S-79	Validated
Methyl CELLOSOLVE Acetate	S&I	N	S-25	S-35	N	N	S-39	Validated
Methyl Chloride	SUI	N	50	100	N	N	201 S-99	Proposed Validated
N-Methyldiethanolamine	SCP	N	N	N	N	N	N	N
N-Methylethanolamine	SCP	N	N	N	N	N	N	N
Methyl Ethyl Ketone	S&I	N	200	300	N	N	127 S-3	Accepted Validated
Methyl Formate	CM	N	100	150	N	N	S-291	Validated
Methyl Isobutyl Ketone	S&I	N	50	75	38C-582-R2	Unclassified	S-18	Validated
Methyl Isopropyl Ketone	SCP	N	200	N	N	N	N	N
Methyl Methacrylate	CM	N	100	125	38C-2C1-R2.1	Accepted	S-43	Validated
N-Methylmorpholine	SUI	N	N	N	N	N	N	N
2-Methylpentaldehyde	SCP	N	N	N	N	N	N	N
2-Methyl-1-Pentanol	S&I	N	N	N	N	N	N	N

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CHEMICAL DIV		DIV	TLV CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
Methyl Phenyl Ketone		S&I	N	N	N	N	N	N	N
Methyl Propyl Ketone		SCP	N	200	250	N	N	N	N
Alpha-Methyl Styrene		S&I	N	500	100	N	N	S-26	Validated
Monoethanolamine		EOD	N	3	6	N	N	270	Proposed
Monoethylamine		EOD	N	10	N	38C-7A2-R2	Unclassified	N	N
Monoisopropylamine		EOD	N	N	N	N	N	N	N
MORLEX Corrision Inhibitors		SCP							
Naphtha		E&HC							
Cyclohexane	1.0%		N	300	375	N	N	S-28	Validated
n-Heptane	8.0%		N	400	500	N	N	S-89	Validated
n-Hexane	13.0%		N	100	125	N	N	S-90	Validated
Methylcyclohexane	2.0%		N	400	500	N	N	S-94	Validated
n-Nonane	2.0%		N	200	250	N	N	N	
n-Octane	5.0%		N	300	375	N	N	S-378	Validated
n-Pentane	10.0%		N	600	750	N	N	S-379	Validated
Toluene	1.7%		N	S-100	S-150	38C-10S-R2	Unclassified	S-343	Validated
Xylene	1.3%		N	S-100	S-150	N	N	S-318	Validated
NIAX Activators		SUI							
NIAX Polyols		SUI							

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CHEMICAL DIV	DIV	TLV CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
NIAX Blowing Agents	SUI							
11 (Trichlorofluoromethane)		N	1000	1250	N	N	S-102	Validated
11B (PM-3825)								
11C (PM-5458)								
11D (PM-5563)								
12 (Dichlorodifluoromethane)		N	1000	1250	N	N	S-111	Validated
NIAX Catalyst	SUI							
NIAX Isocyanates	SUI							
Pentaethylenehexamine (Polyamine D)	EOD	N	N	N	N	N	N	N
1,5-Pentanediol	SCP	N	N	N	N	N	N	N
2,4-Pentanedione	SCP	N	N	N	N	N	N	N
n-Pentanol See n-Valeraldehyde	S&I							
n-Pentanoic Acid See Valeric Acid	S&I							
n-Pentanol	S&I	N	N	N	N	N	N	N
Peracetic Acid	SCP	N	N	N	N	N	N	N
Phenol	S&I	N	S-5	S-10	N	N	S-330	Validated

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CHEMICAL DIV		DIV	TLV CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
Phenolic Resins		CM							
Phenyl Alkane F		EOD							
Piperazine		EOD	N	N	N	N	N	N	N
Polyamine D		EOD	N	N	N	N	N	N	N
Polyamine HPA No 2 Mixture, (PM-1076)		EOD							
Polyamine HPA No 2	78%		N	N	N	N	N	N	N
Diethylenetriamine			N	S-1	N	N	N	S-276	Validated
Polyamine HPA #2		EOD	N	N	N	N	N	N	N
Polyglycolamine H-163		SCP							
Polyglycoldiamines		SCP							
Polymer JR		SCP	N	N	N	N	N	N	N
POLYOX		SCP	N	N	N	N	N	N	N
Polypropylene Glycols		SUI	N	N	N	N	N	N	N
Polysulfone		SCP	N	N	N	N	N	N	N
Primary Amyl Acetate		S&I							
n-Amyl Acetate	60.0%		N	100	150	N	N	S-51	Validated
2-Methyl-1-Butyl Acetate	35%		N	N	N	N	N	N	N
3-Methyl-1-Butyl Acetate	5%		N	N	N	N	N	N	N

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CHEMICAL DIV		DIV	TLV CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
Primary Amyl Alcohol		S&I							
n-Amyl Alcohol (1-Pentanol)	60%		N	N	N	N	N	N	N
2-Methyl-1-Butanol			N	N	N	N	N	N	N
3 Methyl-1-Butanol			N	N	N	N	N	N	N
Propane		E&HC	N	Asphyxiant	N	N	N	N	N
n-Propanol		S&I	N	S-200	S-250	N	N	S-62	Validated
PROPASOL Solvents		SCP							
PROPASOL Solvent B									
PROPASOL Solvent BEP									
PROPASOL Solvent DM									
PROPASOL Solvent M									
PROPASOL Solvent P									
Propionaldehyde		S&I	N	N	N	N	N	N	N
Propionic Acid		S&I	N	10	15	N	N	N	N

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CHEMICAL DIV	DIV	TLV CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
Propiophenone	SCP	N	N	N	N	N	N	N
n-Propyl Acetate	S&I	N	200	250	N	N	S-48	Validated
Propylene	E&HC	N	Asphyxiant	N	N	N	N	N
Propylene Glycol	SCP	N	N	N	N	N	N	N
Propylene Oxide	SUI	N	20	UCC 100	38C-K2C-R2	Accepted	S-75	Validated
n-Propyldiethanolamine	SCP	N	N	N	N	N	N	N
n-Propylethanolamine	SCP	N	N	N	N	N	N	N
RADEL	SCP	N	N	N	N	N	N	N
Rapid Water Additive	SCP							
Resin Hardeners	SCP							
ZZL-0806 (Diethylenetriamine)		N	S-1	S-4	N	N	S-276	Validated
ZZL-0809 (Diethylenetriamine)		N	S-	S-4	N	N	S-276	Validated
ZZL-0822 (Polyglycoldiamine H-221)		N	N	N	N	N	N	N
ZZL-0840 (Triethylenetetramine)		N	N	N	N	N	N	N
ZZL-0806 (Tetraethylenepentamine)		N	N	N	N	N	N	N

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CHEMICAL DIV	DIV	TLV CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
SALVATONE M	SCP							
SOLVENT WC-65	EOD							
SOLVENT WC-133	EOD							
SOLVENT WC-322	EOD							
Styrene		N	50	100	38C-B1L1-R2	Proposed	121 S-30	Operational Validated
SYNASOL Solvents	S&I							
SYNASOL 190 Gov Form 1, PM-41								
Ethanol SD1, 190 Proof 93.58%								
SD1 is Ethanol 100 Parts		N	1000	N	N	N	S-56	Validated
Methanol 4 Parts		N	S-200	S-250	N	N	S-59	Validated
MIBK 1 Part		N	50	75	38C-5B2-R2	Unclassified	S-18	Validated
Ethyl Acetate 85-88%, PM-3640 5.61%								
PM-3640 is Ethyl Acetate 90.53% 95-98%		N	400	N	N	N	S-49	Validated
Ethanol SD35A 9.47% 200 Proof								
SD35A is Ethyl Acetate 4.3 Parts		N	400	N	N	N	S-49	Validated
Ethanol 100 Parts		N	1000	N	N	N	S-56	Validated
BRONOCO Rubber Solvent 0.79%		U*	U	U	U	U	U	U

*Unknown

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CHEMICAL DIV	DIV	TLV CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
SYNASOL Solvents S&I (cont)								
SYNASOL 190 Gov Form 3, PM-3224								
Ethanol SDI 190 Proof	96.742%							
SDI is Ethanol 100 Parts		N	1000	N	N	N	S-56	Validated
Methanol 4 Parts		N	S-200	S-250	N	N	S-59	Validated
MIBK 1 Part		N	50	75	38C-5B2-R2	Unclassified	S-18	Validated
Ethyl Acetate 85-88%, PM-3640	1.478%							
PM-3640 is Ethyl Acetate 95-98%	90.53%	N	400	N	N	N	S-49	Validated
Ethanol SD35A 200 Proof	9.47%							
Ethanol SD35A is Ethyl Acetate 4.3 Parts		N	400	N	N	N	S-49	Validated
Ethanol 100 Parts		N	1000	N	N	N	S-56	Validated
BRONOCO Rubber Solvent	0.825%	U	U	U	U	U	U	U
Methyl Isobutyl Ketone	0.9550%	N	50	75	38C-5B2-R2	Unclassified	S-18	Validated
SYNASOL 200 Gov Form 1, PM-100								
Ethanol SDI 200 Proof	93.423%							
SDI is Ethanol 100 Parts		N	1000	N	N	N	S-56	Validated
Methanol 4 Parts		N	S-200	S-250	N	N	S-59	Validated
MIBK 1 Part		N	50	75	38C-5B2-R2	Unclassified	S-18	Validated
Ethyl Acetate 95-98%, PM-3640	5.619%							
PM-3640 is Ethyl Acetate 95-98%	90.53%	N	400	N	N	N	S-49	Validated
Ethanol SD35A 200 Proof	9.47%							
Ethanol SD35A is Ethyl Acetate 4.3 Parts		N	400	N	N	N	S-49	Validated
Ethanol 100 Parts		N	1000	N	N	N	S-56	Validated
BRONOCO Rubber Solvent	0.818%	U	U	U	U	U	U	U

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CHEMICAL DIV		DIV	TLV CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
SYNASOL Solvents S&I (cont)									
SYNASOL 200 Gov Form 3, PM-509									
Ethanol SDI 200 Proof	96.658%								
SDI is Ethanol 100 Parts			N	1000	N	N	N	S-56	Validated
Methanol 4 Parts			N	S-200	S-250	N	N	S-59	Validated
MIBK 1 Part			N	50	75	38C-5B2-R2	Unclassified	S-18	Validated
Ethyl Acetate 85-88%, PM-3640	1.516%								
PM-3640 is Ethyl Acetate 95-98%	90.53%		N	400	N	N	N	S-49	Validated
Ethanol SD35A 200 Proof	9.47%								
Ethanol SD35A is Ethyl Acetate	4.3 Parts		N	400	N	N	N	S-49	Validated
Ethanol	100 Parts		N	1000	N	N	N	S-56	Validated
BRONOCO Rubber Solvent	0.846%		U	U	U	U	U	U	U
Methyl Isobutyl Ketone	0.980%		N	50	75	38C-5B2-R2	Unclassified	S-18	Validated
SYNASOL 200 Gov Form 5, PM-1165									
Ethanol SDI 200 Proof	96.39%								
SDI is Ethanol 100 Parts			N	1000	N	N	N	S-56	Validated
Methanol 4 Parts			N	S-200	S-250	N	N	S-59	Validated
MIBK 1 Part			N	50	75	38C-5B2-R2	Unclassified	S-18	Validated
sec-Butanol	1.96%		N	100	150	N	N	S-53	Validated
Methyl Isobutyl Ketone	0.90%		N	50	75	38C-5B2-R2	Unclassified	S-18	Validated
BRONOCO Rubber Solvent	0.75%		U	U	U	U	U	U	U

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CHEMICAL DIV	DIV	TLV			METHOD			
					UCC		NIOSH	
		CEIL	TWA	STEL	NO	CLASS	NO	CLASS
TERGITOL Nonionic Surfactants	EOD							
15-S-3		N	N	N	N	N	N	N
15-S-5		N	N	N	N	N	N	N
15-S-7		N	N	N	N	N	N	N
15-S-9		N	N	N	N	N	N	N
15-S-12		N	N	N	N	N	N	N
15-S-15		N	N	N	N	N	N	N
15-S-20		N	N	N	N	N	N	N
15-S-30		N	N	N	N	N	N	N
15-S-40		N	N	N	N	N	N	N
25-L-3		N	N	N	N	N	N	N
25-L-5		N	N	N	N	N	N	N
25-L-7		N	N	N	N	N	N	N
25-L-9		N	N	N	N	N	N	N
25-L-12		N	N	N	N	N	N	N
NP-4		N	N	N	N	N	N	N
NP-7		N	N	N	N	N	N	N
NP-9		N	N	N	N	N	N	N
NP-10		N	N	N	N	N	N	N
NP-13		N	N	N	N	N	N	N
NP-40		N	N	N	N	N	N	N
OP-15		N	N	N	N	N	N	N
TMN-3		N	N	N	N	N	N	N
TMN-6		N	N	N	N	N	N	N
TMN-10		N	N	N	N	N	N	N
XD		N	N	N	N	N	N	N
XH		N	N	N	N	N	N	N
Tetradecanol	SCP	N	N	N	N	N	N	N
Tetraethylene Glycol	EOG	N	N	N	N	N	N	N
Tetraethylenepentamine	EOD	N	N	N	N	N	N	N
Tetraethyl-o-silicate	CM	N	N	N	N	N	N	N

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CHEMICAL DIV	DIV	TLV CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
Tetrahydrobenaldehyde	SCP	N	N	N	N	N	N	N
N,N,N,N-tetramethyl-1,3-butanediamine	SUI	N	N	N	N	N	N	N
Toluene	E&HC	N	S-100	S-150	38C-10S-R2	Unclassified	S-343	Validated
Tolylenediamine	SUI	N	UCC 0.1	N	N	N	N	N
Tolylene diisocyanate	SUI	N	0.02	N	38C-B22N2-R2a	Unclassified	141 326	Operational Operational
Trichlorofluoromethane (UCON 11)	SUI	N	1000	1250	N	N	S-102	Validated
Trichlorosilane	SUI	N	N	N	N	N	N	N
Triethanolamine	EOD	N	N	N	N	N	N	N
Triethylamine	EOD	N	25	40	N	N	221 S-152	Proposed Validated
Triethylene Glycol	EOG	N	N	N	N	N	N	N
Triethylene Glycol Diacetate	S&I	N	N	N	N	N	N	N
Triethylenetetramine	EOD	N	N	N	N	N	N	N
2,6,8-trimethyl-4-nonanol	EOD	N	N	N	N	N	N	N
Tripropylene Glycol	SCP	N	N	N	N	N	N	N
UCAR Aircraft Deicining Fluids See Aircraft Deicing Fluids								
UCAR Bisphenol A	S&I	N	N	N	N	N	N	N

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CHEMICAL DIV	DIV	TLV CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
UCAR Buffering Acid	CM							
UCAR Butyl Phenol	CM	N	N	N	N	N	N	N
UCAR Flood Freeze 35	SCP							
UCAR Hexa	CM							
UCAR Latexes	CM							
Adhesive 150								
151								
152								
153								
154								
165								
166								
172								
173								
183								
189								
872								
Latexes 130								
131								
134								
167								
350								

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CHEMICAL DIV	DIV	TLV CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
UCAR Latexes CM (cont)								
	351							
	365							
	366							
	380							
	503							
	508							
	560							
	5000							
Mastic & Caulk								
	153							
	154							
	163							
	351							
	560							
Textil Coating & Binders								
	803							
	812							
	822							
	828							
	872							
	874							
	878							
	879							
Vehicles								
	4029							
	4151							
	4270							
	4312							
	4341							
	4358							
	4362							
	4414							
	4426							

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CHEMICAL DIV		DIV	TLV CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
4431-X									
4433									
4510									
4512									
4550									
4620									
4630-X									
UCAR Pickling Acid		CM							
UCAR Runway Deicers		EOG							
UCAR Runway Deicer, PM-5197									
Ethylene Glycol	50.000%		Vapor 50	Part 10	Part 20	38C-70W6-R2a	Unclassified	338	Proposed
Urea, 50% Aqueous	45.400%		N	N	N	N			
Water, Demineralized	2.084%								
Sodium Flouride	0.010%		N	N	N	N	N	N	N
Tolyltriazole TT-100	0.500%		N	N	N	N	N	N	N
Dipotassium Hydrogen Phosphate	2.000%		N	N	N	N	N	N	N
Dye, Alizarine Astrol B	0.006%		N	N	N	N	N	N	N
UCAR Runway Deicer 2, PM-5973									
Ethylene Glycol	53.484%		Vapor 50	Part 10	Part 20	38C-70W6-R2a	Unclassified	338	Proposed
Urea, 50% Aqueous	45.000%		N	N	N	N			
Dipotassium Hydrogen Phosphate	1.000%		N	N	N	N	N	N	N
Tolyltriazole TT-100	0.500%		N	N	N	N	N	N	N
Sodium Flouride	0.010%		N	N	N	N	N	N	N
Dye, Alizarine Astrol B	0.006%		N	N	N	N	N	N	N
UCAR Runway Deicer 3, PM-5975									
Ethylene Glycol	59.984%		Vapor 50	Part 10	Part 20	38C-70W6-R2a	Unclassified	338	Proposed
Urea, 50% Aqueous	30.000%		N	N	N	N			
Water, Demineralized	8.500%								
Dipotassium Hydrogen Phosphate	1.000%		N	N	N	N	N	N	N
Tolyltriazole TT-100	0.500%		N	N	N	N	N	N	N
Sodium Flouride	0.010%		N	N	N	N	N	N	N

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CHEMICAL DIV		DIV	TLV CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
UCAR Runway Deicers EOG (cont)									
UCAR Runway Deicer 4, PM-5977									
Ethylene Glycol	59.984%		Vapor 50	Part 10	Part 20	38C-7046-R2a	Unclassified	338	Proposed
Urea, 50% Aqueous	30.000%		N	N	N	N			
Water, Demineralized	9.000%								
Dipotassium Hydrogen Phosphate	1.000%		N	N	N	N	N	N	N
Sodium Flouride	0.010%		N	N	N	N	N	N	N
Dye, Alizarine Astrol B	0.006%		N	N	N	N	N	N	N
UCARSAN Sanitizers		SCP							
UCARSAN Sanitizer 402, PM-5910									
Water, Demineralized	97.680%								
UCARCIDE 250 (Glutaraldehyde 50%)	2.000%		0.2	N	N	38C-405-R2a	Unclassified	N	N
TERGITOL 15-S-9	0.300%		N	N	N	N	N	N	N
Perfume Compound 46616	0.020%		N	N	N	N	N	N	N
UCARSAN Sanitizer 420, PM-5911									
Water, Demineralized	76.800%								
UCARCIDE 250 (Glutaraldehyde 50%)	2.000%		0.2	N	N	38C-405-R2a	Unclassified	N	N
TERGITOL 15-S-9	3.000%		N	N	N	N	N	N	N
Perfume Compound 46616	0.020%		N	N	N	N	N	N	N
UCAR Solvent MBE		S&I							
n-Butanol	0-3%		S-50	N	N	N	N	S-66	Validated
2-Butanol	4-10%		N	100	150	N	N	S-53	Validated
n-Butyl Acetate	10-20%		N	150	200	N	N	S-47	Validated
2-Butyl Acetate	40-50%		N	200	250	N	N	S-46	Validated
2-Butyl Formate	4-8%	N	N	N	N	N	N	N	N
Ethyl Butyrate	1-3%	N	N	N	N	N	N	N	N
Ethyl Propinate	2-7%	N	N	N	N	N	N	N	N
Isobutyl Propinate	0-1%	N	N	N	N	N	N	N	N
Methyl-n-Butyrate	3-10%	N	N	N	N	N	N	N	N
n-Propyl Acetate	5-10%		N	200	250	N	N	S-48	Validated
Propyl Propinate	0-2%	N	N	N	N	N	N	N	N

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CHEMICAL DIV		DIV	TLV CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
UCAR Solvent TCM		S&I							
UCAR Tanning Agent G-50 See Glutaraldehyde		SCP							
UCAR Thermofluids		EOG							
UCAR Thermofluid, PM-5961									
Water, Dionized	67.36%								
UCAR Thermofluid 17, PM-1717	32.64%								
PM-1717 is Ethylene Glycol	94.98%		Vapor 50	Part 10	Part 20	38C-70W6-R2a	Unclassified	338	Proposed
Water, Demineralized	1.53%								
Potassium Hydroxide	1.61%		2 mg/m^3	N	N	N	N	173	Recommended
Boric Acid	1.01%		N	N	N	N	N	N	N
Phosphoric Acid 75%	0.66%		N	1 mg/m^3	3 mg/m^3	N	N	S-333	Validated
Sodium Mercaptobenzothiazole 50%	0.21%		N	N	N	N	N	N	N
UCAR Thermofluid Spec-4, PM-5821									
Ethylene Glycol	60.00%		Vapor 50	Part 10	Part 20	38C-70W6-R2a	Unclassified	338	Proposed
Water, Demineralized	36.51%								
Potassium Hydroxide	1.61%		2 mg/m^3	N	N	N	N	173	Recommended
Boric Acid	1.01%		N	N	N	N	N	N	N
Phosphoric Acid, 75%	0.66%		N	1 mg/m^3	3 mg/m^3	N	N	S-333	Validated
Sodium MBT 50% Aqueous	0.21%		N	N	N	N	N	N	N
UCAR Thermofluid Spec-5, PM-5846									
UCAR Thermofluid 17	67.8%								
Water, Demineralized	32.2%								
UCAR Thermofluid 17, PM-1717									
Ethylene Glycol	94.98%		Vapor 50	Part 10	Part 20	38C-70W6-R2a	Unclassified	338	Proposed
Water, Demineralized	1.53%								
Potassium Hydroxide, Flaked	1.61%		2 mg/m^3	N	N	N	N	173	Recommended
Boric Acid	1.01%		N	N	N	N	N	N	N
Phosphoric Acid, 75%	0.66%		N	1 mg/m^3	3 mg/m^3	N	N	S-333	Validated
Sodium MBT, 50%	0.21%		N	N	N	N	N	N	N

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CHEMICAL DIV	DIV	TLV CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
UCAR Thermofluids EOG (cont)								
UCAR Thermofluid 17 Spec-1, PM-5766								
Water, Demineralized 58.00%								
PM-1717 (See PM-1717 above) 42.00%								
UCAR Thermofluids 17 Spec-2, PM-5767								
Water, Demineralized 52.00%								
PM-1717 (See PM-1717 above) 48.00%								
UCAR Thermofluids 17 Spec-3, PM-5819								
Water, Demineralized 37.06%								
PM-1717 (See PM-1717 above) 62.94%								
UCAR Thermofluids 17 Spec-5, PM-5846								
Water, Demineralized 32.20%								
PM-1717 (See PM-1717 above) 67.80%								
UCAR Thermofluids 17 Spec-6, PM-5849								
Water, Demineralized 42.00%								
PM-1717 (See PM-1717 above) 58.00%								
UCAR Wellester TCM	S&I							
UCAR Windshield Deicer	SCP							
UCARCIDE Antimicrobials 125LT, PM-5922	SCP							
UCARCIDE 250 (Glutaraldehyde 50%) 51.50%		0.2	N	N	38C-405-R2a	Unclassified	N	N
Acetone 29.99%		N	1000	1250	38C-5A1-R2	Unclassified	S-1	Validated
Water, Demineralized 18.50%								
EDTA-tet Sodium Salt 0.01%		N	N	N	N	N	N	N
UCON Break Fluids	EOD							
UCON Coating Fluids	EOD							

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CHEMICAL DIV		DIV	TLV CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
UCON Fluorocarbons		SUI							
UCON-11 (Monofluorotrichloromethane)			N	1000	1250	N	N	S-102	Validated
UCON-12 (Difluorodichloromethane)			N	1000	1250	N	N	S-111	Validated
UCON-21 (Monochlorodifluoromethane)			N	1000	1250	N	N	N	N
UCON-113 (Trifluorotrichloroethane)			N	1000	1250	N	N	S-129	Validated
UCON-114 (Tetrafluorodichloroethane)			N	N	N	N	N	N	N
UCON Food Freezant		SUI							
UCON Frothers		S&I							
R-122, PM-5706									
Isophorone	70.00%		5	N	N	38C-NICl-R2	Unclassified	S-367	Validated
Frother R-23	30.00%		U	U	U	U	U	U	U
Frother R-23 is									
R-133, PM-5670									
Methyl Amyl Alcohol	70.00%		N	S-25	S-40	N	N	S-60	Validated
Isophorone Residues	30.00%		U	U	U	U	U	U	U
Isophorone Residues are									
R-149, PM-5724									
UCON Frother R-70	50.00%		U	U	U	U	U	U	U
R-70 is									
HCO Alcohols No. 2			U	U	U	U	U	U	U
HCO Alcohols No. 2 are									
R-206, PM-5793									
Methyl Amyl Alcohol	47.0%		N	S-25	S-40	N	N	S-60	Validated
UCON Frother R-23	53.0%		U	U	U	U	U	U	U
R-23 is									

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CHEMICAL DIV		DIV	TLV CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
UCON Frothers S&I (cont)									
R-207, PM-5832									
Isophorone	60.0%		5	N	N	38C-N1C1-R2	Unclassified	S-367	Validated
UCON Frother R-23									
R-23 is			U	U	U	U	U	U	U
R-210, PM-5897									
Methyl Amyl Alcohol	90.0%		5	N	N	38C-N1C1-R2	Unclassified	S-367	Validated
UCON Frother R-27	10.0%								
R-27 is			U	U	U	U	U	U	U
UCON Hydrolubes		EOD							
UCON Lubricants		EOD							
UCON Quenchants		EOD							
UCON Rubber Lubricants		EOD							
UCON Textile Lubricants		EOD							
UCON Polysulfone		SCP							
Valeraldehyde		S&I	N	50	N	N	N	N	N
n-Valeric Acid		S&I	N	N	N	N	N	N	N
Vinyl Acetate		CM	N	10	20	38C-2A2.40-R2.1	Unclassified	27B	Proposed
Vinyl Cyclohexene		SUI	N	N	N	N	N	N	N
Vinyl Methyl Ether		SCP	N	N	N	N	N	N	N
Vinyl Norbornene		SUI	N	N	N	N	N	N	N

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CHEMICAL DIV		DIV	TLV CEIL	TLV TWA	TLV STEL	METHOD UCC NO	METHOD UCC CLASS	METHOD NIOSH NO	METHOD NIOSH CLASS
WINTER-FLO Coal Aids		SCP							
73, PM-5895									
Winter-Flo Coal Aid 103	74.074%								
See 103, PM-5882 below									
Water, Demineralized	25.926%								
93, PM-5969									
Winter-Flo Coal Aid 103	76.511%								
See 103, PM-5882 below									
Diethylene Glycol	15.302%		N	N	N	N	N	N	N
Water, Demineralized	8.187%								
101, PM-5855									
Diechylene Glycol	64.9%		N	N	N	N	N	N	N
Propasol Solvent DM	20.0%		U	U	U	U	U	U	U
TERGITOL 15-S-7	10.0%		N	N	N	N	N	N	N
Water, Demineralized	5.0%								
Triethanolamine, 99%	0.1%		N	N	N	N	N	N	N
102, PM-5868									
Diethylene Glycol	49.9%		N	N	N	N	N	N	N
Propylene Glycol, USP	45.0%		N	N	N	N	N	N	N
Water, Demineralized	5.0%		N	N	N	N	N	N	N
Triethanolamine, 99%	0.1%		N	N	N	N	N	N	N
103, PM-5882									
Ethylene Glycol	86.4%		Vapor 50	Part 10	Part 20	38C-70W6-R2	Unclassified	338	Proposed
Cellosolve Solvent	8.6%		N	S-50	S-100	38C-70W6-R2	Unclassified	S-361	Validated
Water, Demineralized	4.9%								
Dimethylethanolamine			N	N	N	N	N	N	N
220, PM-5918									
Kerosene	70.0%		N	N	N	N	N	N	N
TERGITOL 15-S-3	20.0%		N	N	N	N	N	N	N
Cellosolve Solvent	10.0%		N	S-50	S-100	38C-70W6-R2	Unclassified	S-361	Validated
Xylene, O, M, P		E&HC	N	S-100	S-150	N	N	S-318	Validated

WP2199A/c1f

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