

**STATE OF ALASKA RFP NUMBER 2523S042
AMENDMENT NUMBER ONE**

AMENDMENT ISSUING OFFICE:



Department of Transportation & Public Facilities
Statewide Contracting & Procurement
P.O. Box 112500
(3132 Channel Drive, Room 350)
Juneau, Alaska 99811-2500

THIS IS NOT AN ORDER

DATE AMENDMENT ISSUED: November 18, 2022

ITB TITLE:

ALASKA MARINE HIGHWAY SYSTEM HAZAROUS WASTE REMOVAL

REVISED ITB BID DUE DATE AND TIME: December 2, 2022 at 2:00 PM prevailing Alaska Time

This is a mandatory return Amendment. *Your bid may be considered non-responsive if this signed amendment is not received [in addition to your proposal] by the date and time proposals are due.*

Signature: *Cherish Petrenchak*
Name: Cherish Petrenchak
Title: Procurement Specialist II

Date: _____

Vendor Signature

Business Name: _____

Date: _____

Printed Name: _____

Signature: _____

Title: _____

The purpose of this Amendment is to address questions and address an administrative error.

Change 1: The ITB Bid Due Date has been revised to December 2, 2022 at 2:00PM prevailing Alaska Time as seen above.

The bid schedule Attachment A is amended and included with this Amendment One. Failure to submit the Amended bid schedule with your bid will cause you bid to be deemed non-responsive and your bid rejected. If a bidder has already submitted a bid, you have the option to submit a new bid with your amended bid schedule With your bid OR your previously submitted bid schedule will be retained by the Procurement Officer. Bidders that Intend to submit a new bid schedule must contact the Procurement Officer and provide instructions for either the Return or disposal of their initial submittal.

**STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
ALASKA MARINE HIGHWAY SYSTEM HAZARDOUS WASTE REMOVAL
AMENDMENT ONE**

ITB: 2523S042

Proposals received after the Due Date and Time will be considered Non-responsive.

Change : Incorrect bid number was found on ITB. Correct Bid # 2523S042. See updated solicitation (attached).

In addition to the above change, the following questions have been submitted by the vendor community in response to this ITB.

End of Changes

Question 1: Typically, how often do the sites require waste shipments?

Answer 1: *Ketchikan once a quarter, Homer twice a year, Bellingham once a quarter*

Question 2: The Descriptions of Waste Streams in Lot 1-D, Lot 2-D and Lot 3-D of Bid schedule are very generic, which makes giving an accurate rate difficult. Do you have any waste profiles or copies of historic waste manifests that could be provided that would give us a better idea of the composition of the waste streams?

Answer 2: *Please see attachment Waste Manifests.*

Question 3: Can you provide a description of chemical composition of the waste stream Lot D, Item 5 Alkaline Bulk? Is this typically a liquid or solid waste stream?

Answer 3: This is a liquid.

Question 4: For the following waste streams in Lot-D can you provide a Safety Data Sheet, waste profile or Description of the chemical description of the chemical composition? Item 15. Disc Cleaner Ameroid, item 16. HDE-777, & ITEM 17. MLD Ballasts Inhibitor.

Answer 4: Please find Safety Data Sheet attached for Ameroid and MLD Ballasts Inhibitor and description For HDE-777 attached.

Question 5: On Attachment A Bid Schedule Lot-A, item 7, can this description be changed to per mobilization? For some of the sites we may mobilize to jobsite by truck and some by airplane, so changing description to mobilization would work for all 3 lots?

Answer 5: This has been changed to read : Roundtrip transportation from home base to Bellingham or mobilization.

Question 6: Will award be based upon low bid of Total Evaluated Costs? If yes, it appears that Contractors who enter additional waste stream rates in cells E105-E114 would unfairly have a higher bid total than contractor who offers no additional rates in E10-E114. Same goes for if we enter optional rates in Lot C.

Answer 6: Those cells are not evaluated they are just to capture prices.

Please print or type. (Form designed for use on ellipse (12-pitch) typewriter.)

004447564FLE

Contract# 7619 Form Approved OMB No. 2060-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number WAD988486965	2. Page 1 of 1	3. Emergency Response Phone 1-800-424-9300	4. Manifest Tracking Number 004447564 FLE				
5. Generator's Name and Mailing Address ALASKA MARINE HWY SYSTEM 7559 N TONGASS KETCHIKAN, AK 99901 (907) 465-8855		Generator's City/Address (If different than mailing address) ALASKA MARINE HWY SYSTEM 365 HARRIS AVE BELLINGHAM, WA 98225		U.S. EPA ID Number WAD058364647					
6. Transporter 1 Company Name EMERALD SERVICES, INC.		U.S. EPA ID Number		WAD981769110					
7. Transporter 2 Company Name		U.S. EPA ID Number		WAD981769110					
8. Designated Facility Name and Site Address EMERALD SERVICES INC 1825 ALEXANDER AVE TACOMA, WA 98421 Facility's Phone: (253) 627-4822		U.S. EPA ID Number		WAD981769110					
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	Type	11. Total Quantity	12. Unit Wt/Vol	13. Waste Codes		
	X	1. UN1263, Waste paint related material, 3, PG-II FP=<38 C C.C., RQ-10, ERG#128	6	CF	3000	P	0001 0008 0220 U154 0005		
	X	2. UN1263, Waste paint related material, 3, PG-II FP=<38 C C.C., RQ-10, ERG#128	4	DM	1200	P	0001 0008 0220 U154 0005		
	X	3. UN1993, Waste Flammable liquids, n.o.s. (TOLUENE, ACETONE), 3, PG-II, FP=<38C C.C., RQ-100, ERG#128	1	DM	200	P	0001 0035 0003 F005		
14. Special Handling Instructions and Additional Information 1) 42458LP PAINT RELATED MATERIALS- 2) 42458LP PAINT RELATED MATERIALS- 3) 33331 SPENT PAINT RELATED MATERI		REPORT ANY "RQ" DISCHARGE TO NATIONAL RESPONSE CENTER 800-424-8802, AND 911 EMERGENCY NUMBER OR LOCAL OPERATOR. GENERATOR CONTACT: EDELL CLAYTON (907) 465-8855							
15. GENERATOR'S/CERTIFIER'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/packaged, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization element identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.									
Generator's/Certifier's Printed/Typed Name KEN MILLER		Signature Ken Miller		Month 2		Day 23	Year 12		
TRANSPORTER	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.		Port of entry/exit: Date leaving U.S.:						
	Transporter signature (for exports only): Signature Seth Christensen		Month 2					Day 20	Year 12
DESIGNATED FACILITY	17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Signature Month 2		Day 20		Year 12				
	Transporter 2 Printed/Typed Name Signature Month 2		Day 20		Year 12				
	18. Discrepancy 18a. Discrepancy Indication Spec <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Manifest Reference Number:								
	18b. Alternate Facility (or Generator) Facility's Phone: 18c. Signature of Alternate Facility (or Generator)		U.S. EPA ID Number Month 2					Day 20	Year 12
	19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling system) 1. H141 2. H141 3. H061 4.								
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a Printed/Typed Name Signature Month 2		Day 20		Year 12					

Please print or type. (Form designed for use on office (12-pitch) typewriter.)

004447567ELE

Contract# 7519

Form Approved, OMB No. 2050-0030

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number WAD988486965	2. Page 1 of 2	3. Emergency Response Phone 1-800-424-9300	4. Manifest Tracking Number 004447567 FILE		
5. Generator's Name and Mailing Address ALASKA MARINE HWY SYSTEM 7559 N TONGASS KETCHIKAN, AK 99901 Generator's Phone: (907) 465-8855		6. Generator's Site Address (if different than mailing address) ALASKA MARINE HWY SYSTEM 365 HARRIS AVE BELLINGHAM, WA 98225					
7. Transporter 1 Company Name EMERALD SERVICES, INC.		U.S. EPA ID Number WAD058364647					
7. Transporter 2 Company Name STEVE FORLER TRUCKING		U.S. EPA ID Number WAR000001263					
8. Designated Facility Name and Site Address US ECOLOGY IDAHO, INC. 20400 LEMLEY RD GRAND VIEW ID 83624 Facility's Phone: (800) 274-1516		U.S. EPA ID Number IDD073114654					
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	Type	11. Total Quantity	12. UN WL/AL	13. Waste Codes
	X	1. UN3264, WASTE CORROSIVE LIQUIDS, ACIDIC, INORGANIC, N.O.S. (HYDROCHLORIC ACID), 8, PG-II, RQ-100, ERG#154	4	DM	400	P	D002
	X	2. UN1760, Waste Corrosive Liquids, N.O.S. (potassium hydroxide, sodium hydroxide), 8, PG-II, RQ-100, ERG#154	1	CF	500	P	D002
	X	3. UN3265, Waste corrosive liquid, acidic, organic, n.o.s. (tannic acid, rust remover), 8, RQ-100, ERG#154	2	DF	100	P	D002
	X	4. UN3260, CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (SODIUM BISULFATE), 8, PG-II, RQ-100, ERG#154	1	DF	300	P	
14. Special Handling Instructions and Additional Information 1) 27364-0 MT. HOOD D SCALE 2) 26387 ALKALINE LOOSE PACKS 3) 26389 ACID LAB PACKS 4) 27361-0 OAKTIE 84 M		REPORT ANY "RQ" DISCHARGE TO NATIONAL RESPONSE CENTER 800-424-8802, AND 911 EMERGENCY NUMBER OR LOCAL OPERATOR. GENERATOR CONTACT: EDESL CLAYTON (907) 465-8855					
15. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 202.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Owner's Printed/Typed Name Ken Miller		Signature Ken Miller		Month Day Year 2 33 12			
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.		Port of origin/dest: Date leaving U.S.:					
Transporter signature (for exports only):							
17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Seth Christensen		Signature Seth Christensen		Month Day Year 2 25 12			
Transporter 2 Printed/Typed Name		Signature		Month Day Year			
18. Discrepancy 18a. Discrepancy Indication Boxes <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection Manifest Reference Number:							
18b. Alternate Facility (or Generator) Facility's Phone:		U.S. EPA ID Number					
18c. Signature of Alternate Facility (or Generator)		Month Day Year					
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1.		2.		3.		4.	
20. Designated Facility Owner or Operator Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name							
Signature		Month Day Year					

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)		21. Generator ID Number WAD988486965	22. Page 2 / 2	23. Manifest Tracking Number 004447567 FLE	
24. Generator's Name ALASKA MARINE HWY SYSTEM 365 HARRIS AVE BELLINGHAM, WA 98225		U.S. EPA ID Number			
25. Transporter <u>3</u> Company Name		U.S. EPA ID Number			
26. Transporter <u>4</u> Company Name		U.S. EPA ID Number			
27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	Type	29. Total Quantity	30. Unit Wt/Vol.
	UN2880, Waste calcium hypochlorite, hydrated, 5.1, PG-II, RQ=D001, ERG#140	1	DF	50	P
	UN1759, CORROSIVE SOLID, N.O.S. (TRISODIUM PHOSPHATE), 8, PG-III, ERG#154	1	DF	60	P
	UN1759, CORROSIVE SOLID, N.O.S. (SULFAMIC ACID), 8, PG-III, ERG#154	1	DF	80	P
	MATERIAL NOT REGULATED BY DOT	1	DM	200	P
	MATERIAL NOT REGULATED BY DOT	3	DM	165	G
	MATERIAL NOT REGULATED BY D.O.T.	1	CF	400	P
32. Special Handling Instructions and Additional Information 9) USE18523 CALCIUM HYPOCHLORITE TABLETS 10) USE23339 NON-RCRA LABPACK 11) USE27651-0 SCALE REMOVER WITH TRISODIUM PHOS 12) USE27652-0 SCALE REMOVER WITH SULFAMIC ACID 13) USE27363-0 KILNEM HYOCIDE					
33. Transporter <u>3</u> Acknowledgment of Receipt of Materials Printed/Typed Name _____ Signature _____ Month _____ Day _____ Year _____					
34. Transporter <u>4</u> Acknowledgment of Receipt of Materials Printed/Typed Name _____ Signature _____ Month _____ Day _____ Year _____					
35. Discrepancy					
36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) H131 H131 H131 H132 H131					

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

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Contract# 7619

Form Approved, OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number WAD988486965	2. Page 1 of 2	3. Emergency Response Phone -800-424-9300	4. Manifest Tracking Number 004447569 FLE				
5. Generator's Name and Mailing Address ALASKA MARINE HWY SYSTEM 7559 N TONGASS KETCHIKAN, AK 99901 Generator's Phone: (907) 465-8855			6. Generator's Site Address (if different than mailing address) ALASKA MARINE HWY SYSTEM 365 HARRIS AVE BELLINGHAM, WA 98225						
7. Transporter 1 Company Name EMERALD SERVICES, INC.			U.S. EPA ID Number WAD058364647						
7. Transporter 2 Company Name CLEAN HARBORS ENVIR. SRVCS.			U.S. EPA ID Number MAD039322250						
8. Designated Facility Name and Site Address CLEAN HARBORS (ARAGONITE), LLC 11600 N. APTUS ROAD, EXIT 56 ARAGONITE, UT 84029 Facility's Phone: (435) 884-8100			U.S. EPA ID Number UTD981552177						
9a. HRI	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes			
		Qty No.	Type						
		1	DM			600	P	0002	
		1	DM			350	P		
		1	DF			500	P	0001	0002
X	1. UN2922, WASTE CORROSIVE LIQUIDS, TOXIC, N.O.S. (POTASSIUM HYDROXIDE, HYDRAZINE), 8(6.1), PG-II, RQ=1, ERG#154	1	DM	350	P				
X	2. UN2831, Waste 1,1,1-trichloroethane, 6.1, PG-III, ERG#160	1	DM	350	P				
X	3. UN2920, Waste corrosive liquids, Flammable N.O.S. (phosphoric acid, IPA), 8(3), PG-II FP=<38 C.C., RD=10 LBS., ERG#132	1	DF	500	P	0001	0002		
	4. UN1869, Waste pentachloroethanes, 6.1, PG-II, ERG#151	1	DF	250	P				
14. Special Handling Instructions and Additional Information 1) CH549931 AGK100 BOILER AND FEEDER 2) LCCRC TOXIC LP 3) LCCRA ACIDIC LP- Trak 1205 4) CH541381 ACC-9 AIR COOLER CLEAN			REPORT ANY "RQ" DISCHARGE TO NATIONAL RESPONSE CENTER 800-424-8802, AND 911 EMERGENCY NUMBER OR LOCAL OPERATOR. GENERATOR CONTACT: EDELL CLAYTON (907) 465-8855						
15. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.									
Generator's/Officer's Printed/Typed Name Ken Miller			Signature Ken Miller		Month Day Year 12 23 12				
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.			Port of entry/exit: Date leaving U.S.:						
Transporter signature (for exports only):									
17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Seth Christensen			Signature Seth Christensen		Month Day Year 12 23 12				
Transporter 2 Printed/Typed Name			Signature		Month Day Year				
18. Discrepancy									
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection									
Manifest Reference Number:									
18b. Alternate Facility (or Generator)			U.S. EPA ID Number						
Facility's Phone:									
18c. Signature of Alternate Facility (or Generator)			Month Day Year						
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)									
1.		2.		3.		4.			
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a									
Printed/Typed Name			Signature		Month Day Year				

Please print or type. (Form designed for use on allo (12-pitch) typewriter.)

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Contract# 7619

Form Approved, OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number WAD988486965	2. Page 1 of 1	3. Emergency Response Phone 1-800-424-9300	4. Manifest Tracking Number 004447570 FLE			
5. Generator's Name and Mailing Address ALASKA MARINE HWY SYSTEM 7559 N TONGASS KETCHIKAN, AK 99901 (907) 465-8855		Generator's Site Address (if different than mailing address) ALASKA MARINE HWY SYSTEM 365 HARRIS AVE BELLINGHAM, WA 98225						
6. Transporter 1 Company Name EMERALD SERVICES, INC.		U.S. EPA ID Number WAD058364647						
7. Transporter 2 Company Name		U.S. EPA ID Number						
8. Designated Facility Name and Site Address EMERALD SERVICES INC 1825 ALEXANDER AVE TACOMA, WA 98421 (253) 627-4822		U.S. EPA ID Number WAD981769110						
Facility's Phone:								
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	Type	11. Total Quantity	12. Unit VLMol.	13. Waste Codes	
	X	UN1075, BUTANE GASES, LIQUIFIED, 2.1, ERG#115	1	DF	50	P	D001	
	2							
	3							
	4							
14. Special Handling Instructions and Additional Information 1) 4255050 BUTANE CYLINDERS		REPORT ANY "RQ" DISCHARGE TO NATIONAL RESPONSE CENTER 800-424-8802, AND 911 EMERGENCY NUMBER OR LOCAL OPERATOR. GENERATOR CONTACT: EDESEL CLAYTON (907) 465-8855						
15. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.								
Generator's Signature/Printed Name Ken Miller		Signature <i>Ken Miller</i>		Month 12		Day 23		
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.		Port of entry/exit: Date (paying U.S.):						
TRANSPORTER	17. Transporter Acknowledgment of Receipt of Materials							
	Transporter 1 Printed/Typed Name Seth Christensen		Signature <i>Seth Christensen</i>		Month 12		Day 23	
	Transporter 2 Printed/Typed Name		Signature		Month		Day	
DESIGNATED FACILITY	18. Discrepancy							
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
	Manifest Reference Number:							
	18b. Alternate Facility (or Generator)		U.S. EPA ID Number					
	Facility's Phone:							
18c. Signature of Alternate Facility (or Generator)		Signature		Month		Day		
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)								
1. H141		2.		3.		4.		
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a								
Printed/Typed Name		Signature		Month		Day		

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

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Contract# 7619

Form Approved OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number AKD983069444		2. Page 1 of 3		3. Emergency Response Phone 1-800-424-9300		4. Manifest Tracking Number 003470294 FLE		
5. Generator's Name and Mailing Address SOA DOT - AK MARINE HWY SYS. 7559 N. TONGASS AVE. KETCHIKAN, AK 99901 (907) 228-7277						Generator's Site Address (if different than mailing address) SOA DOT - AK MARINE HWY SYS. 3501 TONGASS AVENUE KETCHIKAN, AK 99901				
6. Transporter 1 Company Name NORTHLAND SERVICES, INC.						U.S. EPA ID Number WAD981773005				
7. Transporter 2 Company Name EMERALD ALASKA, INC						U.S. EPA ID Number AKR000004184				
8. Designated Facility Name and Site Address US ECOLOGY IDAHO, INC. 20400 LEMLEY RD GRAND VIEW, ID 83624 (800) 274-1516						U.S. EPA ID Number IDD073114654				
Facility's Phone:										
GENERATOR	9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))				10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	X	UN1719, WASTE CAUSTIC ALKALI LIQUIDS, N.O.S. (SODIUM HYDROXIDE), 8, PG-II, ERG#154 RQ = D002				002 CF		1600	P	D002
	X	UN3266, WASTE CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (SODIUM HYDROXIDE, SODIUM SULFITE), 8, PG-II, ERG#154 RQ = D002				002 DM		600	P	D002
	X	UN3264, WASTE CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (PHOSPHORIC ACID, SULFURIC ACID), 8, ERG#154 PG-II RQ = D002				001 CF		800	P	D002
	X	UN1719, WASTE CASUTIC ALKALI LIQUIDS, N.O.S. (SODIUM HYDROXIDE, POTASSIUM HYDROXIDE), 8, ERG#154 PG-II RQ = D002				001 DF		130	P	D002
14. Special Handling Instructions and Additional Information 1) .. ALKALINE LOOSE PACKS (2-Cy) 2) .. CATALYZED SULFITE CORROSION (1-30gal) Sodium Hydroxide Loose Pack (2x55) 3) .. ACID LAB PACK (1-Cy) 4) .. ALKALINE LOOSE PACK (1-55gal)										
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.										
Generator's/Officer's Printed/Typed Name DAVID M. JANCAUSKAS						Signature 		Month Day Year 17 12 11		
TRANSPORTER	16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.				Port of entry/exit: Date leaving U.S.:					
	17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name LARRY SCHUBERT Signature 									
DESIGNATED FACILITY	18. Discrepancy									
	18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection									
	18b. Alternate Facility (or Generator) Manifest Reference Number: U.S. EPA ID Number									
	Facility's Phone: 18c. Signature of Alternate Facility (or Generator) Month Day Year									
	19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 1. 2. 3. 4.									
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name Signature Month Day Year										

GENERATOR

TRANSPORTER

DESIGNATED FACILITY

Manifest #: 003470294976

Line #: 11

Drum #: Box #1

ALKALI LIQUIDS n.o.s.

[illegible]

Generator: State of Alaska DOT-Marine Highway System
EPA I.D. #: AKR983069444
Contract #:

Waste Profile #:
Container Type/Size:
Disposal #:

1 cty Box

Manifest #: 00344-0294 FLE
Line #: 1-
Drum #: Box 2

Proper D.O.T. Shipping Name: WASTE CAUSTIC ALKALI LIQUIDS N.O.S.

Hazard Class: 8

UN# UN 1719

Group: II

Codes:

2002 D002

[illegible]

Manifest #: 003470294FUE

EPA I.D. #: AKR983069444

Container Type/Size:

1001 Box

Line #: 0001047100

Contract #:

Disposal #:

NAME # 100
NAME # 100

Proper D.O.T. Shipping Name: *WASTE - Corrosive Liquid*

Acidic Inorganic Phosphoric A

Drain #: SEA-H302
Sulfuric Acid)

Packing	Waste

D002

[illegible]

LABPACK INVENTORY SHEETS											
Generator:	STATE OF ALASKA DOT		Waste Profile #			Page #	1 of 1				
EPA ID #	AKR983069444		Container Type/Size	1x55 DF		Manifest #	003470294 FLE				
Contract #			Delivery Order #			Line #	1-4				
Proper Shipping Name			WASTE CAUSTIC ALKALI LIQUIDS, N.O.S.								
Labpack #			Hazard Class	8		UN/NA #	1719		Packing Group	II	
Drum #			RCRA Codes	D002		State Codes					
LINE #	QTY	QTY	Product Name	Hazard Class	UN/NA #	PG	Waste Codes	Phase (SLUG)	Container	Container Size	Weight (pounds)
			Sodium Hydroxide Solution	8	1719	II	D002	L	5	3 gal plastic	130
TOTAL WEIGHT (pounds)											0

AMEROID RSR

Chemwatch GHS Safety Data Sheet
Aug-24-2010
XC1614SC

CHEMWATCH 24-0157
Version No:2.0
CD 2010/3 Page 1 of 8

Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME

AMEROID RSR

PROPER SHIPPING NAME

PHOSPHORIC ACID, SOLUTION

PRODUCT USE

■ Used according to manufacturer's directions.

SUPPLIER

Company: Drew Marine

Address:

100 South Jefferson Road

Whippany, NJ 07891

United States of America

Telephone: 973 526- 5700.

Emergency Tel: **CHEMWATCH: from within the US and**

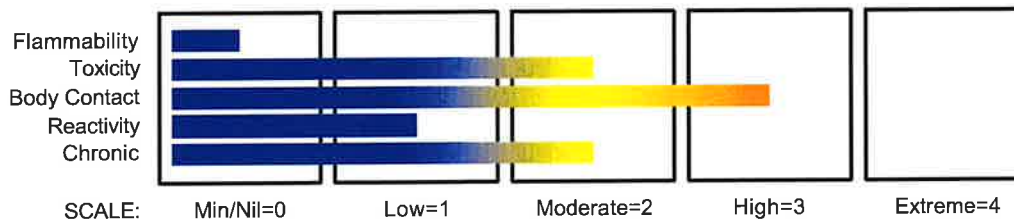
Canada: 877- 715- 9305 From outside the US and

Canada: 800 2436 2255 (1- 800- CHEMCALL) or call

613 9573 3112

Section 2 - HAZARDS IDENTIFICATION

CHEMWATCH HAZARD RATINGS



GHS Classification

Acute Aquatic Hazard Category 2

Acute Toxicity (Oral) Category 4

Chronic Aquatic Hazard Category 2

Metal Corrosion Category 1

Serious Eye Damage Category 1

Skin Corrosion/Irritation Category 1C



EMERGENCY OVERVIEW

HAZARD

DANGER

Determined by Chemwatch using GHS criteria:

H411

H302

H290

H314

H318

H401

H318

Toxic to aquatic life with long lasting effects

Harmful if swallowed

May be corrosive to metals

Causes severe skin burns and eye damage

Causes serious eye damage

Toxic to aquatic life

Causes serious eye damage

continued...

AMEROID RSR

Chemwatch GHS Safety Data Sheet
Aug-24-2010
XCI614SC

CHEMWATCH 24-0157
Version No:2.0
CD 2010/3 Page 2 of 8
Section 2 - HAZARDS IDENTIFICATION

PRECAUTIONARY STATEMENTS

Prevention

Keep only in original container.
Do not breathe the dust/fume/gas/mist/vapours/spray.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection/face protection.

Response

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER or doctor/physician.
Rinse mouth.
Wash contaminated clothing before reuse.
Absorb spillage to prevent material damage.
Collect spillage.

Storage

Store locked up.
Store in corrosive resistant container or with a resistant inner liner.

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

NAME	CAS RN	%
phosphoric acid	7664-38-2	10-30
alcohols C12- 15 ethoxylated	68131-39-5	1-5

Note: Manufacturer has supplied full ingredient information to allow CHEMWATCH assessment.

Section 4 - FIRST AID MEASURES

SWALLOWED

- For advice, contact a Poisons Information Center or a doctor at once.
- Urgent hospital treatment is likely to be needed.

EYE

- If this product comes in contact with the eyes:
- Immediately hold eyelids apart and flush the eye continuously with running water.
- Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.

SKIN

- If skin or hair contact occurs:
- Immediately flush body and clothes with large amounts of water, using safety shower if available.
- Quickly remove all contaminated clothing, including footwear.

INHALED

- If fumes or combustion products are inhaled remove from contaminated area.
 - Lay patient down. Keep warm and rested.
- Inhalation of vapors or aerosols (mists, fumes) may cause lung edema. Corrosive substances may cause lung damage (e.g.
- <p>

NOTES TO PHYSICIAN

- Treat symptomatically.
- For acute or short term repeated exposures to strong acids:
- Airway problems may arise from laryngeal edema and inhalation exposure. Treat with 100% oxygen initially.
 - Respiratory distress may require cricothyroidotomy if endotracheal intubation is contraindicated by excessive swelling.

Section 5 - FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

- The product contains a substantial proportion of water, therefore there are no restrictions on the type of extinguishing media which may be used.
- Choice of extinguishing media should take into account surrounding areas.
- Though the material is non-combustible, evaporation of water from the mixture, caused by the heat of nearby fire, may produce floating layers of

continued...

AMEROID RSR

Chemwatch GHS Safety Data Sheet
Aug-24-2010
XC1614SC

CHEMWATCH 24-0157
Version No:2.0
CD 2010/3 Page 3 of 8
Section 5 - FIRE FIGHTING MEASURES

combustible substances.

In such an event consider:

- foam.
- dry chemical powder.
- carbon dioxide.

FIRE FIGHTING

- Alert Emergency Responders and tell them location and nature of hazard.
- Wear full body protective clothing with breathing apparatus.

When any large container (including road and rail tankers) is involved in a fire, consider evacuation by 800 metres in all directions.

FIRE/EXPLOSION HAZARD

- Non combustible.
- Not considered to be a significant fire risk., carbon dioxide (CO2), phosphorus oxides (POx), other pyrolysis products typical of burning organic material.

FIRE INCOMPATIBILITY

- None known.

Personal Protective Equipment

Breathing apparatus.

Chemical splash suit.

Section 6 - ACCIDENTAL RELEASE MEASURES

MINOR SPILLS

- Environmental hazard - contain spillage.
- Drains for storage or use areas should have retention basins for pH adjustments and dilution of spills before discharge or disposal of material.
- Check regularly for spills and leaks.
- Clean up all spills immediately.
- Avoid breathing vapors and contact with skin and eyes.

MAJOR SPILLS

- Environmental hazard - contain spillage.
- Clear area of personnel and move upwind.
- Alert Emergency Responders and tell them location and nature of hazard.

Personal Protective Equipment advice is contained in Section 8 of the MSDS.

Section 7 - HANDLING AND STORAGE

PROCEDURE FOR HANDLING

- DO NOT allow clothing wet with material to stay in contact with skin.
- Avoid all personal contact, including inhalation.
- Wear protective clothing when risk of exposure occurs.

SUITABLE CONTAINER

- DO NOT use aluminum or galvanized containers.

Check regularly for spills and leaks.

- Lined metal can, Lined metal pail/drum
- Plastic pail.

For low viscosity materials

- Drums and jerricans must be of the non-removable head type.
- Where a can is to be used as an inner package, the can must have a screwed enclosure.

STORAGE INCOMPATIBILITY

- Phosphoric acid:

- Is a medium-strong acid which produces violent reaction with bases
- may produce violent react when water is added to the concentrated form
- reacts violently with solutions containing ammonia or bleach, azo compounds, epoxides and other polymerisable compounds
- reacts, possibly violently with amines, aldehydes, alkanolamines, alcohols, alkylene oxides, amides, ammonia, ammonia hydroxide, calcium oxide, cyanides, epichlorohydrin, esters, halogenated organics, isocyanates, ketones, oleum, organic anhydrides, sodium tetraborate, sulfides, sulfuric acid, strong oxidisers, vinyl acetate
- forms explosive mixtures with nitromethane
- at elevated temperatures attacks many metals producing hydrogen gas
- at room temperature does not attack stainless steel, copper or its alloys
- attacks glass, ceramics, and some plastics, rubber and coatings.
- Inorganic acids are generally soluble in water with the release of hydrogen ions. The resulting solutions have pH's of less than 7.0.
- Inorganic acids neutralize chemical bases (for example: amines and inorganic hydroxides) to form salts.
- Reacts vigorously with alkalis.
- Reacts with mild steel, galvanized steel / zinc producing hydrogen gas which may form an explosive mixture with air.
- Phosphates are incompatible with oxidizing and reducing agents.

continued...

AMEROID RSR

Chemwatch GHS Safety Data Sheet
Aug-24-2010
XCI614SC

CHEMWATCH 24-0157
Version No:2.0
CD 2010/3 Page 4 of 8
Section 7 - HANDLING AND STORAGE

• Phosphates are susceptible to formation of highly toxic and flammable phosphine gas in the presence of strong reducing agents such as hydrides.
Segregate from alkalis, oxidizing agents and chemicals readily decomposed by acids, i.e. cyanides, sulfides, carbonates.

STORAGE REQUIREMENTS

- Store in original containers.
- Keep containers securely sealed.

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE CONTROLS

Source	Material	TWA ppm	TWA mg/m ³	STEL ppm	STEL mg/m ³	Notes
Canada - British Columbia Occupational Exposure Limits	phosphoric acid (Phosphoric acid)		1		3	
Canada - Ontario Occupational Exposure Limits	phosphoric acid (Phosphoric acid)		1		3	
US - Minnesota Permissible Exposure Limits (PELs)	phosphoric acid (Phosphoric acid)		1		3	
US ACGIH Threshold Limit Values (TLV)	phosphoric acid (Phosphoric acid)		1		3	TLV Basis: upper respirator y tract, eye & skin irritation
US NIOSH Recommended Exposure Limits (RELs)	phosphoric acid (Phosphoric acid)		1		3	
Canada - Alberta Occupational Exposure Limits	phosphoric acid (Phosphoric acid)		1		3	
US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants	phosphoric acid (Phosphoric acid)		1		3	
US - Vermont Permissible Exposure Limits Table Z- 1- A	phosphoric acid (Phosphoric acid)		1		3	
Transitional Limits for Air Contaminants						
US - Vermont Permissible Exposure Limits Table Z- 1- A	phosphoric acid (Phosphoric acid)		1		3	
Final Rule Limits for Air Contaminants						
US - California Permissible Exposure Limits for Chemical Contaminants	phosphoric acid (Phosphoric acid)		1		3	
US - Idaho - Limits for Air Contaminants	phosphoric acid (Phosphoric acid)		1		3	
US OSHA Permissible Exposure Levels (PELs) - Table Z1	phosphoric acid (Phosphoric acid)		1		3	
US - Hawaii Air Contaminant Limits	phosphoric acid (Phosphoric acid)		1		3	
US - Alaska Limits for Air Contaminants	phosphoric acid (Phosphoric acid)		1		3	
US - Michigan Exposure Limits for Air Contaminants	phosphoric acid (Phosphoric acid)		1		3	
Canada - Yukon Permissible Concentrations for Airborne Contaminant Substances	phosphoric acid (Phosphoric acid)		1		3	
US - Washington Permissible exposure limits of air contaminants	phosphoric acid (Phosphoric acid)		1		3	

continued...

AMEROID RSR

Chemwatch GHS Safety Data Sheet
Aug-24-2010
XC1614SC

CHEMWATCH 24-0157
Version No:2.0
CD 2010/3 Page 5 of 8

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Source	Material	TWA ppm	TWA mg/m ³	STEL ppm	STEL mg/m ³	Notes
Canada - Saskatchewan Occupational Health and Safety Regulations - Contamination Limits	phosphoric acid (Phosphoric acid)		1		3	
Canada - Prince Edward Island Occupational Exposure Limits	phosphoric acid (Phosphoric acid)		1		3	TLV Basis: upper respirator y tract, eye & skin irritation
US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants	phosphoric acid (Phosphoric acid)		1			
Canada - Quebec Permissible Exposure Values for Airborne Contaminants (English)	phosphoric acid (Phosphoric acid)		1		3	
US - Oregon Permissible Exposure Limits (Z- 1)	phosphoric acid (Phosphoric acid)		1			
Canada - Northwest Territories Occupational Exposure Limits (English)	phosphoric acid (Phosphoric acid)		1		3	
Canada - Nova Scotia Occupational Exposure Limits	phosphoric acid (Phosphoric acid)		1		3	TLV Basis: upper respirator y tract, eye & skin irritation

The following materials had no OELs on our records
• alcohols C12- 15 ethoxylated:

CAS:68131- 39- 5

PERSONAL PROTECTION



RESPIRATOR

Type AB-P Filter of sufficient capacity

EYE

- Chemical goggles.
- Full face shield.

HANDS/FEET

- Wear chemical protective gloves, eg. PVC.
- When handling corrosive liquids, wear trousers or overalls outside of boots, to avoid spills entering boots.

Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include: such as:

- frequency and duration of contact,
- chemical resistance of glove material,
- glove thickness and
- dexterity

Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739).

- When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374) is recommended.
- When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN 374) is recommended.
- Contaminated gloves should be replaced.

Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended.

OTHER

- Overalls.
- PVC Apron.

ENGINEERING CONTROLS

- General exhaust is adequate under normal operating conditions. Local exhaust ventilation may be required in special circumstances.

<lp>.

continued...

AMEROID RSR

Chemwatch GHS Safety Data Sheet
Aug-24-2010
XC1614SC

CHEMWATCH 24-0157
Version No:2.0
CD 2010/3 Page 6 of 8

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Clear corrosive liquid; mixes with water.

PHYSICAL PROPERTIES

Liquid.

Mixes with water.

Corrosive.

Acid.

State	Liquid	Molecular Weight	Not Applicable
Melting Range (°F)	Not Available	Viscosity	Not Available
Boiling Range (°F)	Not Available	Solubility in water (g/L)	Miscible
Flash Point (°F)	Not Available	pH (1% solution)	Not Available
Decomposition Temp (°F)	Not Available	pH (as supplied)	<2.4
Autoignition Temp (°F)	Not Available	Vapor Pressure (mmHg)	17.251
Upper Explosive Limit (%)	Not Available	Specific Gravity (water=1)	1.13- 1.23
Lower Explosive Limit (%)	Not Available	Relative Vapor Density (air=1)	Not Available
Volatile Component (%vol)	Not Available	Evaporation Rate	Not Available

Section 10 - CHEMICAL STABILITY

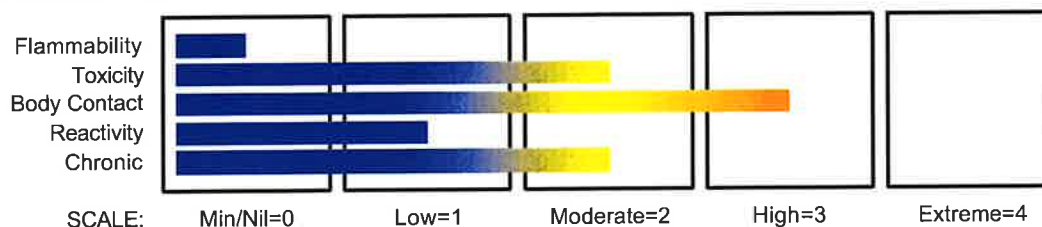
CONDITIONS CONTRIBUTING TO INSTABILITY

• Contact with alkaline material liberates heat.

For incompatible materials - refer to Section 7 - Handling and Storage.

Section 11 - TOXICOLOGICAL INFORMATION

CHEMWATCH HAZARD RATINGS



POTENTIAL HEALTH EFFECTS

GHS Hazard Phrases

Toxic to aquatic life with long lasting effects

Harmful if swallowed

May be corrosive to metals

Causes severe skin burns and eye damage

Causes serious eye damage

Toxic to aquatic life

Causes serious eye damage

TOXICITY AND IRRITATION

■ Not available. Refer to individual constituents.

Section 12 - ECOLOGICAL INFORMATION

alcohols C12-15 ethoxylated 96 hr LC50 (2.1) mg/L Bluegill Fish Source:

May cause long-term adverse effects in the environment.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

continued...

AMEROID RSR

Chemwatch GHS Safety Data Sheet
Aug-24-2010
XCI614SC

CHEMWATCH 24-0157
Version No:2.0
CD 2010/3 Page 7 of 8
Section 12 - ECOLOGICAL INFORMATION

This material and its container must be disposed of as hazardous waste.
Avoid release to the environment.
Refer to special instructions/ safety data sheets.

Ecotoxicity

Ingredient	Persistence: Water/Soil	Persistence: Air	Bioaccumulation	Mobility
phosphoric acid	HIGH		LOW	HIGH

Section 13 - DISPOSAL CONSIDERATIONS

■ Puncture containers to prevent re-use and bury at an authorized landfill.
Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.
A Hierarchy of Controls seems to be common - the user should investigate:
• Reduction
• Reuse
• Recycling
• Disposal (if all else fails)
This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. Shelf life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate. DO NOT allow wash water from cleaning equipment to enter drains. Collect all wash water for treatment before disposal.
• Recycle wherever possible.
• Consult manufacturer for recycling options or consult Waste Management Authority for disposal if no suitable treatment or disposal facility can be identified.

Section 14 - TRANSPORTATION INFORMATION



DOT:

Symbols:	None	Hazard class or Division:	8
Identification Numbers:	UN1805	PG:	III
Label Codes:	8	Special provisions:	A7, IB3, N34, T4, TP1
Packaging: Exceptions:	154	Packaging: Non- bulk:	203
Packaging: Exceptions:	154	Quantity limitations:	5 L
		Passenger aircraft/rail:	
Quantity Limitations: Cargo	60 L	Vessel stowage: Location:	A
aircraft only:			
Vessel stowage: Other:	None		
Hazardous materials descriptions and proper shipping names:			
Phosphoric acid solution			

Air Transport IATA:

ICAO/IATA Class:	8	ICAO/IATA Subrisk:	None
UN/ID Number:	1805	Packing Group:	III
Special provisions:	A3		
Cargo Only			
Packing Instructions:	821	Maximum Qty/Pack:	60 L
Passenger and Cargo		Passenger and Cargo	
Packing Instructions:	819	Maximum Qty/Pack:	5 L
Passenger and Cargo Limited Quantity		Passenger and Cargo Limited Quantity	
Packing Instructions:	Y819	Maximum Qty/Pack:	1 L

Shipping Name: PHOSPHORIC ACID, SOLUTION

Maritime Transport IMDG:

IMDG Class:	8	IMDG Subrisk:	None
UN Number:	1805	Packing Group:	III
EMS Number:	F-A, S-B	Special provisions:	223
Limited Quantities:	5 L	Marine Pollutant:	Yes
Shipping Name: PHOSPHORIC ACID SOLUTION			

continued...

AMEROID RSR

Chemwatch GHS Safety Data Sheet
Aug-24-2010
XC1614SC

CHEMWATCH 24-0157
Version No:2.0
CD 2010/3 Page 8 of 8

Section 15 - REGULATORY INFORMATION

REGULATIONS

Regulations for ingredients

phosphoric acid (CAS: 7664-38-2,16271-20-8) is found on the following regulatory lists;

"Canada - Alberta Occupational Exposure Limits", "Canada - British Columbia Occupational Exposure Limits", "Canada - Northwest Territories Occupational Exposure Limits (English)", "Canada - Nova Scotia Occupational Exposure Limits", "Canada - Ontario Occupational Exposure Limits", "Canada - Prince Edward Island Occupational Exposure Limits", "Canada - Quebec Permissible Exposure Values for Airborne Contaminants (English)", "Canada - Saskatchewan Industrial Hazardous Substances", "Canada - Saskatchewan Occupational Health and Safety Regulations - Contamination Limits", "Canada - Yukon Permissible Concentrations for Airborne Contaminant Substances", "Canada Ingredient Disclosure List (SOR/88-64)", "Canada Toxicological Index Service - Workplace Hazardous Materials Information System - WHMIS (English)", "GESAMP/EHS Composite List - GESAMP Hazard Profiles", "IMO IBC Code Chapter 17: Summary of minimum requirements", "IMO MARPOL 73/78 (Annex II) - List of Noxious Liquid Substances Carried in Bulk", "International Council of Chemical Associations (ICCA) - High Production Volume List", "OECD Representative List of High Production Volume (HPV) Chemicals", "US - Alaska Limits for Air Contaminants", "US - California Air Toxics ""Hot Spots"" List (Assembly Bill 2588) Substances for which emissions must be quantified", "US - California Occupational Safety and Health Regulations (CAL/OSHA) - Hazardous Substances List", "US - California OEHHA/ARB - Chronic Reference Exposure Levels and Target Organs (CRELs)", "US - California Permissible Exposure Limits for Chemical Contaminants", "US - California Toxic Air Contaminant List Category II", "US - Connecticut Hazardous Air Pollutants", "US - Hawaii Air Contaminant Limits", "US - Idaho - Limits for Air Contaminants", "US - Massachusetts Oil & Hazardous Material List", "US - Michigan Exposure Limits for Air Contaminants", "US - Minnesota Hazardous Substance List", "US - Minnesota Permissible Exposure Limits (PELs)", "US - New Jersey Right to Know Hazardous Substances", "US - Oregon Permissible Exposure Limits (Z-1)", "US - Pennsylvania - Hazardous Substance List", "US - Rhode Island Hazardous Substance List", "US - Tennessee Occupational Exposure Limits - Limits For Air Contaminants", "US - Vermont Permissible Exposure Limits Table Z-1-A Final Rule Limits for Air Contaminants", "US - Vermont Permissible Exposure Limits Table Z-1-A Transitional Limits for Air Contaminants", "US - Washington Permissible exposure limits of air contaminants", "US - Wyoming Toxic and Hazardous Substances Table Z1 Limits for Air Contaminants", "US ACGIH Threshold Limit Values (TLV)", "US CWA (Clean Water Act) - List of Hazardous Substances", "US CWA (Clean Water Act) - Reportable Quantities of Designated Hazardous Substances", "US Department of Transportation (DOT) List of Hazardous Substances and Reportable Quantities - Hazardous Substances Other Than Radionuclides", "US DOE Temporary Emergency Exposure Limits (TEELs)", "US EPA High Production Volume Chemicals Additional List", "US FDA Direct Food Substances Generally Recognized as Safe", "US Food Additive Database", "US List of Lists - Consolidated List of Chemicals Subject to EPCRA, CERCLA and Section 112(r) of the Clean Air Act", "US NIOSH Recommended Exposure Limits (RELs)", "US OSHA Permissible Exposure Levels (PELs) - Table Z1", "US Toxic Substances Control Act (TSCA) - Inventory"

alcohols C12-15 ethoxylated (CAS: 68131-39-5) is found on the following regulatory lists;

"Canada Domestic Substances List (DSL)", "Canada Toxicological Index Service - Workplace Hazardous Materials Information System - WHMIS (English)", "OECD Representative List of High Production Volume (HPV) Chemicals", "US Toxic Substances Control Act (TSCA) - Inventory"

No data for AMEROID RSR (CW: 24-0157)

Section 16 - OTHER INFORMATION

INGREDIENTS WITH MULTIPLE CAS NUMBERS

Ingredient Name	CAS
phosphoric acid	7664-38-2, 16271-20-8

■ Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

A list of reference resources used to assist the committee may be found at:
www.chemwatch.net/references.

■ The (M)SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios, Scale of use, frequency of use and current or available engineering controls must be considered.

■ For detailed advice on Personal Protective Equipment, refer to the following U.S. Regulations and Standards:

OSHA Standards - 29 CFR:

1910.132 - Personal Protective Equipment - General requirements

1910.133 - Eye and face protection

1910.134 - Respiratory Protection

1910.136 - Occupational foot protection

1910.138 - Hand Protection

Eye and face protection - ANSI Z87.1

Foot protection - ANSI Z41

Respirators must be NIOSH approved.

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Issue Date: Aug-24-2010
Print Date: Oct-18-2010

2607

CIL
MATERIAL SAFETY DATA SHEET

Ashland

Page 001
Date Prepared: 01/09/98
Date Printed: 05/11/00
MSDS No: 999.0001162-006.003

CIL CORROSION INHIBITOR

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Material Identity

Product Name: CIL

General or Generic ID: MIXTURE - SODIUM SILICATE

Company

Ashland
Ashland Distribution Co. &
Ashland Specialty Chemical Co.
P. O. Box 2219
Columbus, OH 43216
614-790-3333

Emergency Telephone Number:

1-800-ASHLAND (1-800-274-5263)
24 hours everyday

Regulatory Information Number:

1-800-325-3751

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient(s)	CAS Number	% (by weight)
SODIUM SILICATE	1344-09-8	25.0- 40.0

3. HAZARDS IDENTIFICATION

Potential Health Effects

Eye

Can cause eye irritation. Symptoms include stinging, tearing, redness, and swelling of eyes.

Skin

Can cause skin irritation. Symptoms may include redness and burning of skin, and other skin damage.

Continued on next page

MATERIAL SAFETY DATA SHEET

Ashland

Page 002

Date Prepared: 01/09/98

Date Printed: 05/11/00

MSDS No: 999.0001162-006.003

CIL

Swallowing

Swallowing this material may be harmful or fatal. Symptoms may include severe stomach and intestinal irritation (nausea, vomiting, diarrhea), abdominal pain, and vomiting of blood. Swallowing this material may cause burns and destroy tissue in the mouth, throat, and digestive tract. Low blood pressure and shock may occur as a result of severe tissue injury.

Inhalation

Breathing of vapor or mist is possible. Breathing this material may be harmful or fatal. Symptoms may include severe irritation and burns to the nose, throat, and respiratory tract.

Symptoms of Exposure

No data

Target Organ Effects

No data

Developmental Information

No data

Cancer Information

No data

Other Health Effects

No data

Primary Route(s) of Entry

Inhalation, Skin contact.

4. FIRST AID MEASURES

Eyes

If symptoms develop, immediately move individual away from exposure and into fresh air. Flush eyes gently with water for at least 15 minutes while holding eyelids apart; seek immediate medical attention.

Continued on next page

MATERIAL SAFETY DATA SHEET

Ashland

Page 003

Date Prepared: 01/09/98

Date Printed: 05/11/00

MSDS No: 999.0001162-006.003

CIL

Skin

Remove contaminated clothing. Flush exposed area with large amounts of water. If skin is damaged, seek immediate medical attention. If skin is not damaged and symptoms persist, seek medical attention. Launder clothing before reuse.

Swallowing

Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.

Inhalation

If symptoms develop, immediately move individual away from exposure and into fresh air. Seek immediate medical attention; keep person warm and quiet. If person is not breathing, begin artificial respiration. If breathing is difficult, administer oxygen.

Note to Physicians

Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: skin, lung (for example, asthma-like conditions).

5. FIRE FIGHTING MEASURES

Flash Point

Not applicable

Explosive Limit

Not applicable

Autoignition Temperature

No data

Continued on next page

MATERIAL SAFETY DATA SHEET

Ashland

Page 004

Date Prepared: 01/09/98

Date Printed: 05/11/00

MSDS No: 999.0001162-006.003

CIL

Hazardous Products of Combustion

May form: hydrogen, silicates.

Fire and Explosion Hazards

No special fire hazards are known to be associated with this product.

Extinguishing Media

No data

Fire Fighting Instructions

Wear a self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment. Refer to the personal protective equipment section of this MSDS.

NFPA Rating

Not determined

6. ACCIDENTAL RELEASE MEASURES

Small Spill

Cover with soda ash. Mix and scoop into a beaker of water.

Large Spill

Collect and add slowly to large volume of water.

7. HANDLING AND STORAGE

Handling

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed.

Continued on next page

MATERIAL SAFETY DATA SHEET

Ashland

Page 005

Date Prepared: 01/09/98

Date Printed: 05/11/00

MSDS No: 999.0001162-006.003

CIL

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection

Chemical splash goggles and face shield (8" min.) in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type safety glasses. (Consult your industrial hygienist.)

Skin Protection

Wear resistant gloves such as: neoprene, To prevent skin contact, wear impervious clothing and boots., Other protective equipment: eyewash station, emergency shower..

Respiratory Protections

If overexposure has been determined or documented, a NIOSH/MSHA jointly approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators under specified conditions. (See your safety equipment supplier.) Engineering or administrative controls should be implemented to reduce exposure.

Engineering Controls

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below level of overexposure (from known, suspected or apparent adverse effects).

Exposure Guidelines

Component

SODIUM SILICATE (1344-09-8)

No exposure limits established

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point

(for product) 214.0 - 216.0 F (101.1 - 102.2 C) @ 760 mmHg

Continued on next page

MATERIAL SAFETY DATA SHEET

Ashland

Page 006

Date Prepared: 01/09/98

Date Printed: 05/11/00

MSDS No: 999.0001162-006.003

CIL

Vapor Pressure
(for product) < 17.500 mmHg @ 68.00 F

Specific Vapor Density
.670 @ AIR=1

Specific Gravity
1.390 - 1.410 @ 68.00 F

Liquid Density
11.670 lbs/gal @ 68.00 F
1.400 kg/l @ 20.00 C

Percent Volatiles
.0 %

Evaporation Rate
< 1.00 (N-BUTYL ACETATE)

Appearance
CLEAR TO SLIGHTLY TURBID

State
LIQUID

Physical Form
HOMOGENEOUS SOLUTION

Color
COLORLESS

Odor
No data

pH
11.0

Continued on next page