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

Signature: Cherish Petrenchak

Title: Procurement Specialist II

Vendor Signature

Business Name: Date: Date

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.

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	5. Opnomior's Name and	Madian Addinse	ie hwy system		General ALASI	's Site Address	I HWY	an melling address SYSTEM	9)			
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	9s. Fb. U.S. DOT Do HM and Packing Gro	scription finaluting Proper	Shipping Nerve, Hazerd Class	i, ID Number,	Ğ	10. Contaîr	L) per	11. Total Owenlity	12. Unii Wi.Moi.	13.	Waste Code	a.
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- GENE	N2831, V G-III, I	/aste 1,1,1 RG#160	trichloroeth	ane, 6.1,		1	DM	350	p			
	FQ, UN297 X 1.0.5. (p)	O, Waste co losphoric ac lo=10LBS. ER	rrosive liqu id, IPA), 8(3 G#132	ids, flammab), PG-II FP=	1e <38	1	DF	500	ъP	0001	0002	
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4	18a. Discrepancy Indical	ion Space Quar	illy	Птуре		Residue		Peritial Re	lecton		Прико	jection
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1	20. Designated Facility (Printed/Typed Name	huner or Operator: Certific	alion of receipt of hazerdous n	natorfale covered by the man	nifest exc Agnature	ock as noted in the	IN THE			 -	wath Day	y Year

PA Form 8760-22 (Rev. 3-05) Previous editions are obsolele.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

EPA Form 8700-22 (Rev. 3-05) Previous aditions are obsolete.

P		t# 7619 For	m Approved. OMB No. 2050-0039
1	UNIFORM HAZARDOUS 1. Generator ID Number	4. Manifest Tracking N	lumber
	5. Generator's Name and Malling Actorss - AK MARINE HWY SYS. 7559 N. TONGASS AVE. KETCHIKAN, AK 99901 Generator's Phone: SOA DOT - AK MARINE HWY SYS. S	E	
	NORTHLAND SERVICES, INC.	U.S. EPA ID Number	WAD981773005
	EMERALD ALASKA, INC	U.S. EPA ID Number	AKR000004184
	8. Designated Facility Name and Sile Address US ECOLOGY IDAHO, INC. 20400 LEMLEY RD GRAND VIEW, ID 83624 (800) 274-1516	U.S. EPA ID Number	IDD073114654
	HM and Packing Group (if any)) No. Type	11. Total 12. Unit Quantity Wt./Vol.	13, Wasle Codes
GENERATOR	RUIN1719, WASTE CAUSTIC ALKALI LIQUIDS, N.O.S. (SODIUM HYDROXIDE), 8, PG-II, ERG#154 RQ = D00Z OOJ CF	600 P	Danz
GFN	X PG-II, ERG#154 P.Q = D002	600 P	D00.7
	ACID), 8, ERG#154 PG-II P.Q = DOOZ 001 CF	800 P	D002
		130 P	2002
	1) Special Handling Instructions and Additional Information (2-Cy) 2) GATALYZED SULFITE CORROSION I (1-30, all) Somen Hydrogose Pack 3) ACID LAB PACK (1-Cy) 4) ALKALINE LOOSE PACK (1-55q.2)		
	15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmenta 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 i m a small quantity generators/Officor's Printed/Typed Name	i regulations, if export shi	Ipment and I am the Primery
<u> </u>	16. International Shipments		Month Day Year
R	Import to U.S. Export from U.S. Port of entry/exil: Transporter signature (for exports only): 17. Transporter Acknowledgment of Receipt of Materials		
TR ANSPORTER	Transporter 1 Printed/Typed Name LB RBY SCHUBIPAN Transporter 2 Printed/Typed Name Signature Signature Signature	n	Month Day Year 07 22 11 .
TRA	18, Discrepancy		Month Day Year
	18a. Discrepancy Indication Space Quantity Type Residue Manifest Reference Number:	Partial Rejection	Full Rejection
FACILITY		.S. EPA ID Number	· · · · · · · · · · · · · · · · · · ·
	Facility's Phone: 18c. Signature of Allernate Facility (or Generator)		Month Day Year
DESIGNALED	19. Hazardous Waste Report Management Method Codes (i.e., codes for haz≨rtdous waste treatment, disposal, and recycling systems)		
	The second of the second response management metrod codes (s.e., codes for nazardous waste treatment, disposal, and recycling systems)	4.	19 5
	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

16	ase print or type. (Form designed for use on elite (12-pitch) typewriter.)	1 00 Dese	T on Manife	st Tracking Nu	Form	Approved.	OMB No. 2050-0039
1.	UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	AKD 983069444	22, Page 2/ 3	1	3470		FLE	
	24. Generator's Name	SOA DOT - AK MARINE H 3501 TONGASS AVENUE	WY SYS.					
ı	(907) 228-7277	KETCHIKAN, AK 99901		- 4				
l	25. Transporter 3 Company Name	AVER BROTHERS			U.S. EPA ID	Number	A KINO	02848372
		WAR DIGITION			U,S, EPA ID	Number	MILDU	02046372
	26. Transporter 4 Company Name	TEM OCEAN TRAILER EXPRESS				- indifficult	WADO	70397955
ı	278. 27b. U.S. DOT Description (including Proper Ship and Packing Group (if any))	oping Name, Hazard Class, ID Number,	28. Contair		29. Total	30. Unit	31. W	aste Codes
ı		Corrosive Liquid BASIC	No.	Туре	Quantily	Wt./Vol.	Dooz	
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ı	32. Special Handling Instructions and Additional Information					720.00		
ı	5) GC CONCENTRATE (IX	55)			° ĝ		- 2	
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œ	33. Transporter 3 Acknowledgment of Receipt of	Materials	m					th Day Year
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ANS	34. Transporter Acknowledgment of Receipt of Printed/Typed Name	Materials Signatur	re				Mon	ih Day Yeer
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_	35. Discrepancy			***************************************				
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O FA	8	5						
囯	38. Hazardous Waste Report Management Method Cod	les (i.e., codes for hazardous waste treatment, disposal, and	d recycling systems)			.,,.	V	
S								Y
DESIGNATED FACILITY						0/25		
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		FORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)	21. Pericado ISN 8008 0 6 9 4 4 4		3 3	23. O ª U	3470	294	FLE	
П	24. 0	Sonerator's Name	SOA DOT - AK MARII 3501 TONGASS AVEN	NE HWK S	YS.	,			•	
П	TO PROVIDE	(907) 228-7277	KETCHIKAN, AK 9990							
П		(50.) 220 727.	REPORTERAN, AR 9990	J.T.						
	25.	Transporter Company Name	MERALD SERVICES, INC.	4	*****		U.S. EPA ID	Number -v:	WADO	58364647
	26, 1	Transporter Company Name S	TEVE FORLER TRUCKING				U,S, EPAID	Number	WARO	00001263
	27a. HM	27b. U.S. DOT Description (including Proper Si and Packing Group (if any))	nipping Name, Hazard Class, ID Number,	2	B. Containe	ers Type	29. Total Quantity	30. Unit Wt./Vol.	31. W	aste Codes
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EPA I.D. #:						100		
Contract #	AKK983069444	Container	Container Type/Size:	7	S TOX	×	Drim#:	I T
Pro	Proper D.O.T. Shipping Name: 6/4572	G	Cauch	AIKAL	1 6100	AIKALI LIQUIDS N.O.S		1
		IZ	91-11 WM #NU	Packing Group: II	\ 	Waste Codes:	2 8	D002
Them #	Chemical/Product Name	Hazard	UN/NA LD#	Packing Group	Phase (S/L/G)	Container	# of Containers	Ouantity
7	Super Red (Sodium Hydroxide)	>		Ħ	7	5 gai	3	15 gal
2	Amero OSC One Ship Cleaner (Sodium Hydroxide)	>~		H	_	5 gal	m	15 gal
W	Drewplex AT Boiler water treatment (Sodium Hydroxide)	⇔		FI	۔۔	5 gal	ю	15 gai
بو	Barcor N-128 (Sodium Hydroxide)	≫		Ħ	_	5 gal	9	30 gal
S	ACS HD Alk Degreaser (Sodium Hydroxide)	∞		F	ب	5 gal	1	5 gal
و	Chior-Circ 962 (Sodium Hydroxide)	⊳		17	_	5 gal	1	5 gal
	Hydroxide)				٦	5 gal	1	5 gal
*								
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Generator:	State of Alaska DOT-Marine Highway System	Waste	Waste Profile #:			G .	Manifest #:	Manifest #: 003/14 029/FRE
EPA I.D. #:	AKR983069444	Container	Container Type/Size:	Ž	CLA ROX	×	Line #:	<u> </u>
Contract #:		◚	Disposal #:		כ		Drum #: පිරුඨ	Boxa
PT	Proper D.O.T. Shipping Name: WA	WASTE CA	Caustre,	Alkalı	7000	LIGUIDS W.O.S		
	Hazard Class: 8			Packing Group:) =	Waste Codes:	2000 2 ∞Q	02
Item #	Chemical/Product Name	Hazard	UN/NA I.D#	Packing Group	Phase (S/L/G)	Container Type	# of Containers	Quantity
	Drewplex AT Boiler Wate Treatment (Sodium Hydroxide)	⋈		Ħ	-1	5 gal	7	25 gal
	Ultrion 8180 (Sodium Hydroxide)	œ		Fl	7	5 gal	2	10 gal
(N)	Hydroxide Based Cleaner	∞		Ħ	_	5 gai	σ	45 gal
			į.					

Contract #: Proper D.O.T. Shipping Name: Hazard Class: 1	8 8	Container Type/Size: Disposal #: Correcture	· 1	Packing Group: I Group (Container Type 6 gal	3 3 8	Line #: 1-6
Proper D.O	88888	UN# 32 Hazard Class	1.D #	Packing Group: I Group (Waste Codes: Container Type 6 gal	3 3 8	O02 Quantity 18 gal
	00	Hazard Class	L.D #	Group: I	Container Type 6 gal	# of Container	Quantity 18 gal
					Container Type 6 gal	# of Containers	Quantity 18 gal
1 GC Concentrate All	rate Alkaline				6 gal	£	18 gal
			215511621 6		360		

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Manifest #: 003470794PLE Line #: 1-2	Drum #: 供人Oran #2	S	D002	Organtify	18 gal			i i												
Manifest #: Line #:	Drum #:	Macha Aura M.O.S	D00 2 DC	# of	3									1		*				
556a1 dm			Codes:	Container	6 gal															
5560		BASIC	ᄪ	Phase (S/I/G)									2 1000							
		Levids Saking	Group:	Packing	+-															
Waste Profile #: Container Type/Size:	Disposal #:	Corrosive Leguids	3266	UN/NA	-							64								
Waste Containe	,	Corro	#NO	Hazard																
State of Alaska DOT-Marine Highway System AKR983069444		Proper D.O.T. Shipping Name: 6/45/2	Hazard Class: 8	Chemical/Product Name	GC Concentrate Alkaline						100									
Generator: EPA I.D. #:	Contract #:	Prop(Item #	П										39					

AKR983069444 Container Type/Size: AKR983069444 Container Type/Size: Disposal #: Oper D.O.T. Shipping Name: M/6.7\vec{c}C/4CDSC/CC} Action	Manifest #: 003470294FlE Box Line #: 1−3	Drum #: Box-Heid	c Acid, Sulfuric Ac	. S. Waste Doo 2 D002	Container # of	5 dal 9	2	1	5 gal 1 5 gal	5 gal 1 5 gal	1	5 gal 1 5 gal	5 gal 1 5 gal											
AKR983069444 Container Type/Size: Disposal #: Disposal	70)	b	Acron Inorgan	Packing 6:0.		-	7	7	l L	T	J	7	T										ū	
State of Alaska DOT-Marine Highway System AKR983069444 Sper D.O.T. Shipping Name: 44672 Chemical/Product Name Ameroid DC Disc Cleaner (Phosphoric Acid) Trac 1205 (Phosphoric Acid) Scale-X Oxy Gone Remediator Melts Ice Melt Nalco Wetting Agent Nalco Wetting Agent	aste Profile #: iner Type/Size:	3,40		15	UN/NA T.D #	-																		
State of Alaska DOT-Marine Highway S AKR983069444 Sper D.O.T. Shipping Name: A Hazard Class: Chemical/Product Name Ameroid DC Disc Cleaner (Phosphoric Acid) Sulfuric Acid + Phosphoric acid (test b Scale-X Oxy Gone Remediator Melts Ice Melt Nalco Wetting Agent Nalco Wetting Agent	Conta			#NO	Haza	+	ω		N.	Æ	퐀	R.	R		-			_	-	_				
Generator: Contract #: Pre Pre Pre Pre Pre Pre Pre Pre Pre Pr	1 1		oper D.O.T. Shipping Name: WASTE		Chemical/Product Name		Trac 1205 (Phosphoric Acid)	Sulfuric Acid + Phosphoric acid (test bottles	Scale-X	Оху Gone	Remediator	Melts Ice Melt	Nalco Wetting Agent	×		8								

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	1 of 1	46 295 45 00	4-1		H				3 gal plastic						TOTAL WEIGHT (pounds)
	wayse				Group	odes	PU 5 00		3 gal						AL WEIGH
	Page #	Marrifest#*	Line #		77/9 Packing Group	Stafe Cod	Comment)		2						TOT
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LANDPACK MWENTORY SHEETS	Waste Profile#	Container Type/Size	Delivery Order #	CAUSTIC GIKALI	8	D002			1719	\$					
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	STATE OF ALASKA DOF	AKR983069444		WASTE	las	RCRA Codes	المتعدد العماراتين بالإمارات المتعدد إلى	Sodium Hydraxide	Solution			8			
	处处	AKE		Ilpping N				N		(
	Generator. S	EPA D. #	Gontract #	Proper Shipping Name	Labback#	Drum #:				•			76		



Chemwatch GHS Safety Data Sheet Aug-24-2010 XCI614SC

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.

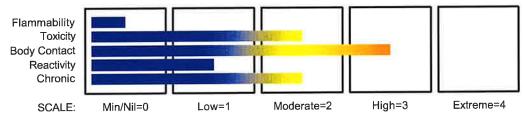
Emergency Tel:CHEMWATCH: from within the US and

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

Acule Aquatic Hazard Calegory 2 Acute Toxicity (Oral) Category 4 Chronic Aquatic Hazard Category 2 Melal Corrosion Category 1 Serious Eye Damage Category 1 Skin Corrosion/Irritation Category 1C





EMERGENCY OVERVIEW

HAZARD

Determined by Chernwatch 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 aqualic life

Causes serious eye damage

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 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
Phosphoric acid
alcohols C12- 15 elhoxylated
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 furnes 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

Chemwatch GHS Safety Data Sheet Aug-24-2010 XCI614SC

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 know

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 malerial 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 arrines, 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.

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	Malerial	TWA ppm	TWA mg/m³	STEL ppm	STEL mg/m³	Notes
	-					
Canada - British	phosphoric acid		1		3	
Columbia Occupational	(Phosphoric acid)					
Exposure Limits Canada - Ontario	phosphoric acid		1		3	
Occupational Exposure	(Phosphoric acid)		18			
Limits	,					
US - Minnesota	phosphoric acid		it.		3	
Permissible Exposure	(Phosphoric acid)					
Limits (PELs)			1		3	TLV Basis:
US ACGIH Threshold	phosphoric acid		0.3			upper
Limit Values (TLV)	(Phosphoric acid)					respirator
))			y tract,
						eye & skin
						irritation
US NIOSH Recommended	phosphoric acid		1		3	
Exposure Limits (RELs)	(Phosphoric acid)		8			
Canada - Alberta	phosphoric acid		if		3	
Occupational Exposure	(Phosphoric acid)					
Limits	phosphoric acid		3		3	
US - Tennessee Occupational Exposure	(Phosphoric acid)		2			
Limits - Limits For Air	(1,100)110110110111					
Conlaminants						
US - Vermont	phosphoric acid		1			
Permissible Exposure	(Phosphoric acid)					
Limits Table Z- 1- A						
Transitional Limits for						
Air Contaminants US - Vermont	phosphoric acid		1		3	
Permissible Exposure	(Phosphoric acid)					
Limits Table Z- 1- A	(i nespiions asia)					
Final Rule Limits for						
Air Contaminants					_	
US - California	phosphoric acid		1		3	
Permissible Exposure	(Phosphoric acid)					
Limits for Chemical						
Contaminants	phosphoric acid		1			
US - Idaho - Limits for Air Contaminants	(Phosphoric acid)		1.815			
US OSHA Permissible	phosphoric acid		:1			
Exposure Levels (PELs)	(Phosphoric acid)					
- Table Z1						
US - Hawaii Air	phosphoric acld		1		3	
Contaminant Limits	(Phosphoric acid)		040		3	
US - Alaska Limits for	phosphoric acid		1		3	
Air Contaminants	(Phosphoric acid) phosphoric acid		1		3	
US - Michigan Exposure Limits for Alr	(Phosphoric acid)		.170			
Contaminants	(i nospitono acid)					
Canada - Yukon	phosphoric acid	9	al .	34	3	
Permissible	(Phosphoric acid)					
Concentrations for						
Airborne Contaminant						
Substances	abasada da 11		1		3	
US - Washington	phosphoric acid (Phosphoric acid)		5.		J	
Permissible exposure	(Filosphone acid)					
llmits of air						

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Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Source	Material	TWA ppm	TWA mg/m³	STEL ppm	STEL mg/m³	Notes
	·	-		-	===	
Canada - Saskatchewan	phosphoric acid		1		3	
Occupational Health and Safety Regulations - Contamination Limits	(Phosphoric acid)					
Canada - Prince Edward	phosphoric acid		1		3	TLV Basis:
Island Occupational	(Phosphoric acid)					upper
Exposure Limits	, ,					respirator y tract, eye & skin irritation
US - Wyoming Toxic and	phosphoric acid		1			
Hazardous Substances	(Phosphoric acid)					
Table Z1 Limits for Air	(i ilospiiolis alla)					
Contaminants						
Canada - Quebec	phosphoric acid		1		3	
Permissible Exposure	(Phosphoric acid)					
Values for Airborne						
Contaminants (English)						
US - Oregon Permissible	phosphoric acid		1			
Exposure Limits (Z- 1)	(Phosphoric acid)					
Canada - Northwest	phosphoric acid		1		3	
Territories	(Phosphoric acid)					
Occupational Exposure						
Limits (English)					6215	
Canada - Nova Scolia	phosphoric acid		1		3	TLV Basis:
Occupational Exposure	(Phosphoric acid)					upper
Limits						respirator
						y tract, eve & 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
- dexlerity

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.

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Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Clear corrosive liquid; mixes with water.

PHYSICAL PROPERTIES

Liquid Mixes with water Corrosive Acid.

Stale
Melting Range (°F)
Boiling Range (°F)
Flash Point (°F)
Decomposition Temp (°F)
Autoignition Temp (°F)
Upper Explosive Limit (%)
Lower Explosive Limit (%)

Volatile Component (%vol)

Liquid
Not Available

Not Available

Molecular Weight
Viscosity
Solubility in water (g/L)
pH (1% solution)
pH (as supplied)
Vapor Pressure (mmHg)
Specific Gravity (water=1)
Relative Vapor Density
(air=1)

Not Applicable Not Available Miscible Not Available <2.4 17.251 1.13-1.23 Not Available

Evaporation Rate Not Available

Section 10 - CHEMICAL STABILITY

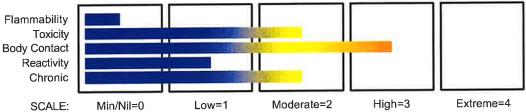
CONDITIONS CONTRIBUTING TO INSTABILITY

· 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.

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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 suilable treatment or disposal facility can be identified.

Section 14 - TRANSPORTATION INFORMATION





DOT:

Symbols:	None	Hazard class or Division:	8
Identification Numbers:	UN1805	PG:	Ш
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:	Α

aircraft only: Vessel slowage: Other:

None

Hazardous materials descriptions and proper shipping names:

Phosphoric acid solution

Air Transport IATA: ICAO/IATA Class:

UN/ID Number:	1805	Packing Group:	111
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

ICAO/IATA Subrisk:

None

Shipping Name: PHOSPHORIC ACID, SOLUTION

Maritime Transport IMDG:

IMDG Class:	8	IMDG Subrisk:	None				
UN Number:	1805	Packing Group:	111				
EMS Number:	F-A,S-B	Special provisions:	223				
Limited Quantities:	5 L	Marine Pollutant:	Yes				
Shipping Name: PHOSPHORIC ACID SOLUTION							

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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 Quantilies 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 Chernwatch Classification committee using available literature references,

A list of reference resources used to assist the committee may be found at:

www.chemwatch.nel/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



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

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.

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.

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

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.

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

Ashland

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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

Нq

11.0