



The following documentation is an electronically-submitted vendor response to an advertised solicitation from the *West Virginia Purchasing Bulletin* within the Vendor Self-Service portal at wvOASIS.gov. As part of the State of West Virginia's procurement process, and to maintain the transparency of the bid-opening process, this documentation submitted online is publicly posted by the West Virginia Purchasing Division at WVPurchasing.gov with any other vendor responses to this solicitation submitted to the Purchasing Division in hard copy format.

Header 8

List View

General Information | [Contact](#) | [Default Values](#) | [Discount](#) | [Document Information](#) | [Clarification Request](#)

Procurement Folder: 1336154

Procurement Type: Central Master Agreement

Vendor ID: 000000106924 

Legal Name: AMERICAN ROCK SALT HOLDINGS LLC

Alias/DBA:

Total Bid: \$0.00

Response Date: 12/13/2023 

Response Time: 15:05

Responded By User ID: ARSCLLC 

First Name: Michele

Last Name: Booher

Email: customerservice@america

Phone: 8887627258

SO Doc Code: CRFQ

SO Dept: 0803

SO Doc ID: DOT2400000052

Published Date: 12/11/23

Close Date: 12/14/23

Close Time: 13:30

Status: Closed

Solicitation Description: Roadway Salt - Sodium Chloride 6624C041 

Total of Header Attachments: 8

Total of All Attachments: 8



Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

**State of West Virginia
 Solicitation Response**

Proc Folder: 1336154
Solicitation Description: Roadway Salt - Sodium Chloride 6624C041
Proc Type: Central Master Agreement

Solicitation Closes	Solicitation Response	Version
2023-12-14 13:30	SR 0803 ESR12132300000002809	1

VENDOR
 000000106924
 AMERICAN ROCK SALT HOLDINGS LLC

Solicitation Number: CRFQ 0803 DOT2400000052
Total Bid: 0
Response Date: 2023-12-13
Response Time: 15:05:53
Comments:

FOR INFORMATION CONTACT THE BUYER

John W Estep
 304-558-2566
 john.w.estep@wv.gov

Vendor Signature X **FEIN#** **DATE**

All offers subject to all terms and conditions contained in this solicitation

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
1	Roadway Salt - Sodium Chloride - DELIVERY	0.00000	TON	0.000000	0.00

Comm Code	Manufacturer	Specification	Model #
46161506			

Commodity Line Comments: *** SEE PRICING PAGES, delivery shall commence immediately and be due within 10 calendar day

Extended Description:

DELIVERY of roadway salt by Vendor to WVDOH Agency delivery locations, as specified on the ATT A Pricing Pages and Delivery Site spreadsheet.

VENDOR NOTE: Bid evaluation will be based on the bid prices submitted on the Pricing Pages Attachment A (ATT A) and Attachment B(ATT B). Vendor's entries of bid prices or other notations made in the wvOASIS commodity lines/descriptions will not be considered for bid evaluation or award.

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
2	Roadway Salt - Sodium Chloride - PICK-UP	0.00000	TON	0.000000	0.00

Comm Code	Manufacturer	Specification	Model #
46161506			

Commodity Line Comments: *** SEE PRICING PAGES, delivery shall commence immediately and be due within 10 calendar day

Extended Description:

PICK-UP of roadway salt by a WVDOH Agency from a Vendor's source site.

VENDOR NOTE: Bid evaluation will be based on the bid prices submitted on the Pricing Pages Attachment A (ATT A) and Attachment B(ATT B). Vendor's entries of bid prices or other notations made in the wvOASIS commodity lines/descriptions will not be considered for bid evaluation or award.

DESIGNATED CONTACT: Vendor appoints the individual identified in this Section as the Contract Administrator and the initial point of contact for matters relating to this Contract.

(Printed Name and Title) Jamie A. McClain, Marketing Manager

(Address) 5520 Rt. 63, PO Box 190, Mt. Morris, NY 14510

(Phone Number) / (Fax Number) (888) 762-7258 / (585) 243-7676

(email address) customerservice@americanrocksalt.com

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through wvOASIS, I certify that: I have reviewed this Solicitation/Contract in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation/Contract for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that this bid or offer was made without prior understanding, agreement, or connection with any entity submitting a bid or offer for the same material, supplies, equipment or services; that this bid or offer is in all respects fair and without collusion or fraud; that this Contract is accepted or entered into without any prior understanding, agreement, or connection to any other entity that could be considered a violation of law; that I am authorized by the Vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on Vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

By signing below, I further certify that I understand this Contract is subject to the provisions of West Virginia Code § 5A-3-62, which automatically voids certain contract clauses that violate State law; and that pursuant to W. Va. Code 5A-3-63, the entity entering into this contract is prohibited from engaging in a boycott against Israel.

American Rock Salt Co., LLC

(Company)

Jamie A McClain

(Signature of Authorized Representative)

Jamie A. McClain, Marketing Manager

(Printed Name and Title of Authorized Representative) (Date)

(888) 762-7258 / (585) 243-7676

(Phone Number) (Fax Number)

customerservice@americanrocksalt.com

(Email Address)



Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

State of West Virginia
 Centralized Request for Quote
 Highways

Proc Folder: 1336154			Reason for Modification:
Doc Description: Roadway Salt - Sodium Chloride 6624C041			
Proc Type: Central Master Agreement			
Date Issued	Solicitation Closes	Solicitation No	Version
2023-12-04	2023-12-14 13:30	CRFQ 0803 DOT2400000052	1

BID RECEIVING LOCATION	
BID CLERK DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION 2019 WASHINGTON ST E CHARLESTON WV 25305 US	

VENDOR	
Vendor Customer Code: 106924 Vendor Name : American Rock Salt Co., LLC Address : PO Box 190 Street : 5520 Rt. 63 City : Mount Morris State : New York Country: United States Zip : 14510 Principal Contact : Jamie A. McClain Vendor Contact Phone: (888) 762-7258 Extension:	

FOR INFORMATION CONTACT THE BUYER	
John W Estep 304-558-2566 john.w.estep@wv.gov	

Vendor Signature X 	FEIN# [REDACTED]	DATE December 12, 2023
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All offers subject to all terms and conditions contained in this solicitation



Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

State of West Virginia
 Centralized Request for Quote
 Highways

Proc Folder: 1336154			Reason for Modification: ADDENDUM NO_1 Vendor Question and Response.
Doc Description: Roadway Salt - Sodium Chloride 6624C041			
Proc Type: Central Master Agreement			
Date Issued	Solicitation Closes	Solicitation No	Version
2023-12-07	2023-12-14 13:30	CRFQ 0803 DOT2400000052	2

BID RECEIVING LOCATION

BID CLERK
 DEPARTMENT OF ADMINISTRATION
 PURCHASING DIVISION
 2019 WASHINGTON ST E
 CHARLESTON WV 25305
 US

VENDOR

Vendor Customer Code: 106924

Vendor Name : American Rock Salt Co., LLC

Address : PO Box 190
 Street : 5520 Rt. 63
 City : Mount Morris
 State : New York Country : United States Zip : 14510

Principal Contact : Jamie A. McClain

Vendor Contact Phone: (888) 762-7258 Extension:

FOR INFORMATION CONTACT THE BUYER

John W Estep
 304-558-2566
 john.w.estep@wv.gov

Vendor Signature X *Jamie A McClain* FEIN# [REDACTED] DATE December 12, 2023

All offers subject to all terms and conditions contained in this solicitation



Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 60130
 Charleston, WV 25309-0130

**State of West Virginia
 Centralized Request for Quote
 Highways**

Proc Folder: 1336154		Reason for Modification:	
Doc Description: Roadway Salt - Sodium Chloride 6824C041		ADDENDUM NO_2 Vendor Questions and responses	
Proc Type: Central Master Agreement			
Date Issued	Solicitation Closes	Solicitation No	Version
2023-12-11	2023-12-14 13:30	CRFQ 0803 DOT2400000052	3

BID RECEIVING LOCATION

BID CLERK
 DEPARTMENT OF ADMINISTRATION
 PURCHASING DIVISION
 2019 WASHINGTON ST E
 CHARLESTON WV 25305
 US

VENDOR

Vendor Customer Code: 106924
Vendor Name : American Rock Salt Co., LLC
Address : PO Box 190
Street : 5520 Rt. 63
City : Mount Morris
State : New York **Country :** United States **Zip :** 14510
Principal Contact : Jamie A. McClain
Vendor Contact Phone: (888) 762-7258 **Extension:**

FOR INFORMATION CONTACT THE BUYER
 John W Estep
 304-558-2566
 john.w.estep@wv.gov

Vendor Signature X  FEIN#  DATE December 12, 2023

All offers subject to all terms and conditions contained in this solicitation

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: CRFO DOT240000052

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

Addendum Numbers Received:

(Check the box next to each addendum received)

- | | |
|--|--|
| <input checked="" type="checkbox"/> Addendum No. 1 | <input type="checkbox"/> Addendum No. 6 |
| <input checked="" type="checkbox"/> Addendum No. 2 | <input type="checkbox"/> Addendum No. 7 |
| <input type="checkbox"/> Addendum No. 3 | <input type="checkbox"/> Addendum No. 8 |
| <input type="checkbox"/> Addendum No. 4 | <input type="checkbox"/> Addendum No. 9 |
| <input type="checkbox"/> Addendum No. 5 | <input type="checkbox"/> Addendum No. 10 |

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

American Rock Salt Company, LLC

Company

Jamie A. McClain

Jamie A. McClain Authorized Signature

December 12, 2023

Date

NOTE: This addendum acknowledgement should be submitted with the bid to expedite document processing.

REQUEST FOR QUOTATION
Roadway Salt – Sodium Chloride

7.2 The following remedies shall be available to Agency upon default.

7.2.1 Immediate cancellation of the Contract.

7.2.2 Immediate cancellation of one or more release orders issued under this Contract.

7.2.3 Any other remedies available in law or equity.

8. MISCELLANEOUS:

8.1 No Substitutions: Vendor shall supply only Contract Items submitted in response to the Solicitation unless a contract modification is approved in accordance with the provisions contained in this Contract.

8.2 Vendor Supply: Vendor must carry sufficient inventory of the Contract Items being offered to fulfill its obligations under this Contract. By signing its bid, Vendor certifies that it can supply the Contract Items contained in its bid response.

8.3 Contract Manager: During its performance of this Contract, Vendor must designate and maintain a primary Contract Manager responsible for overseeing Vendor's responsibilities under this Contract. The Contract Manager must be available during normal business hours to address any customer service or other issues related to this Contract. Vendor should list its Contract Manager and his or her contact information below.

Contract Manager: _____
Telephone Number: _____
Fax Number: _____
Email Address: _____

Vendor shall inform the Agency in writing of any changes to the information provided above within ten (10) calendar days of such changes. Failure to comply may be grounds for cancellation of this contract.

ROADWAY SALT - SODIUM CHLORIDE
Attachment A Pricing Pages
District 1 - Delivery

Vendor shall complete ATT A by providing a price per ton for the delivery of roadway salt to any or all Counties listed. Vendor shall NOT add, delete, or modify spreadsheet column and row headers, descriptions, units of measure, or estimated quantities. Exhibit A - "WVDOH Delivery Site Information" contains detailed location and contact information for delivery site locations listed below.

Vendor Name: American Rock Salt Company LLC

DISTRICT 1			
County	Delivery Site Location	Estimated Quantity	Vendor Bid Price (cost per ton)
<i>Boone</i>	Clinton @ WV85	100	
	Rock Creek	0	
	Seth	0	
<i>Boone County Total Estimated</i>		100	No Bid
<i>Clay</i>	Widen Road & CR 11	0	
	Maysel	0	
<i>Clay County Total Estimated</i>		0	No Bid
<i>Kanawha</i>	Chelyan	0	
	Elkview	0	
	North Charleston	0	
	St. Albans	0	
	I-64 @ Rt. 119 and Penn. Avenue	300	
	I-77 @ Sissonville	300	
	I-79 @ Amma	300	
	Corridor G @ Alum Creek	300	
<i>Kanawha County Total Estimated</i>		1,200	No Bid
<i>Mason</i>	Glenwood	0	
	Pt. Pleasant @ Fairground Rd.	300	
	Pt. Pleasant @ Jackson Ave.	0	
<i>Mason County Total Estimated</i>		300	No Bid
<i>Putnam</i>	Red House	0	
	Hurricane @ Rt. 34	0	
	I-64 @ Scary Creek	300	
<i>Putnam County Total Estimated</i>		300	No Bid
DISTRICT 1 TOTAL		1,900	

ROADWAY SALT - SODIUM CHLORIDE
Attachment A Pricing Pages
District 2 - Delivery

Vendor shall complete ATT A by providing a price per ton for the delivery of roadway salt to any or all Counties listed. Vendor shall NOT add, delete, or modify spreadsheet column and row headers, descriptions, units of measure, or estimated quantities. Exhibit A - "WVDOH Delivery Site Information" contains detailed location and contact information for delivery site locations listed below.

Vendor Name: American Rock Salt Company LLC

DISTRICT 2			
County	Delivery Site Location	Estimated Quantity	Vendor Bid Price (cost per ton)
<i>Cabell</i>	Barboursville / Cabell Co. HQ	800	
	Huntington I-64 Section 1	850	
	Huntington 31st Bridge	0	
	Huntington 17th St. Bridge	0	
<i>Cabell County Total</i>		1,650	No Bid
<i>Lincoln</i>	West Hamlin	700	
	Yawkey	200	
	Harts	300	
<i>Lincoln County Total</i>		1,200	No Bid
<i>Logan</i>	Corridor G @ Chapmanville	550	
	Wilkinson Substation	150	
	Man Substation	100	
	Hickory Lane	0	
<i>Logan County Total</i>		800	No Bid
<i>Mingo</i>	Corridor G @ Miller's Creek, Bldg #03011	100	
	Mingo Cty @ Miller's Creek, Bldg #03025	100	
	Gilbert Substation	100	
	Mingo 119 South	0	
<i>Mingo County Total</i>		300	No Bid
<i>Wayne</i>	Pritchard Substation	0	
	Wayne County Headquarters	1,300	
	Crum Substation	0	
	Heartland Intermodal Gateway	0	
<i>Wayne County Total</i>		1,300	No Bid
DISTRICT 2 TOTAL		5,250	

ROADWAY SALT - SODIUM CHORIDE
Attachment A Pricing Pages
District 3 - Delivery

Vendor shall complete ATT A by providing a price per ton for the delivery of roadway salt to any or all Counties listed. Vendor shall NOT add, delete, or modify spreadsheet column and row headers, descriptions, units of measure, or estimated quantities. Exhibit A - "WVDOH Delivery Site Information" contains detailed location and contact information for delivery site locations listed below.

Vendor Name: American Rock Salt Company LLC

DISTRICT 3			
County	Delivery Site Location	Estimated Quantity	Vendor Bid Price (cost per ton)
<i>Calhoun</i>	Millstone	500	
<i>Calhoun County Total</i>		500	No Bid
<i>Jackson</i>	Ripley / Jackson Co. HQ	1,900	
	I-77 @ Medina	900	
<i>Jackson County Total</i>		2,800	No Bid
<i>Pleasants</i>	Belmont	1,000	
<i>Pleasants County Total</i>		1,000	No Bid
<i>Ritchie</i>	APD Pennsboro	700	
	Ellenboro / Harrisville Substation	2,000	
	Greenwood	350	
	Corridor D @ Nutter Farm	350	
	Smithville Substation	350	
<i>Ritchie County Total</i>		3,750	No Bid
<i>Roane</i>	Lefthand @ WV 36	150	
	Ambler Ridge Substation @ US 119	150	
	Roane County HQ	1,200	
<i>Roane County Total</i>		1,500	No Bid
<i>Wirt</i>	Harrisville Substation	750	
<i>Wirt County Total</i>		750	No Bid
<i>Wood</i>	Parkersburg @ Rt. 95S	100	
	I-77 @ Parkersburg	100	
	Corridor D @ Riverhill	100	
<i>Wood County Total</i>		300	No Bid
DISTRICT 3 TOTAL		10,600	

ROADWAY SALT - SODIUM CHLORIDE
Attachment A Pricing Pages
District 4 - Delivery

Vendor shall complete ATT A by providing a price per ton for the delivery of roadway salt to any or all Counties listed. Vendor shall NOT add, delete, or modify spreadsheet column and row headers, descriptions, units of measure, or estimated quantities. Exhibit A - "WVDOH Delivery Site Information" contains detailed location and contact information for delivery site locations listed below.

Vendor Name: American Rock Salt Company LLC

DISTRICT 4			
County	Delivery Site Location	Estimated Quantity	Vendor Bid Price (cost per ton)
<i>Doddridge</i>	West Union	1,000	
<i>Doddridge County Total</i>		1,000	\$110.82
<i>Harrison</i>	Harrison Co. HQ	5,500	
	Saltwell	500	
	Lost Creek Substation	1,500	
	Tunnel Hill Substation	1,500	
<i>Harrison County Total</i>		9,000	\$107.50
<i>Marion</i>	Marion Co. HQ	1,500	
	Mannington Substation	1,000	
<i>Marion County Total</i>		2,500	\$92.00
<i>Monongalia</i>	Goshen Rd. Substation	2,000	
	Monongalia Co. HQ	5,000	
	Pentress Substation	1,000	
<i>Monongalia County Total</i>		8,000	\$88.00
<i>Preston</i>	Bruceton Mills Substation	2,500	
	Preston Co. HQ	1,200	
	Terra Alta Substation	1,000	
	Fellowsville Substation	1,000	
	Aurora Substation	1,000	
	Cooper's Rock Substation	2,000	
<i>Preston County Total</i>		8,700	\$89.00
<i>Taylor</i>	Taylor Co. HQ	1,600	
<i>Taylor County Total</i>		1,600	\$92.00
DISTRICT 4 TOTAL		30,800	

ROADWAY SALT - SODIUM CHLORIDE
Attachment A Pricing Pages
District 5 - Delivery

Vendor shall complete ATT A by providing a price per ton for the delivery of roadway salt to any or all Counties listed. Vendor shall NOT add, delete, or modify spreadsheet column and row headers, descriptions, units of measure, or estimated quantities. Exhibit A - "WVDOH Delivery Site Information" contains detailed location and contact information for delivery site locations listed below.

Vendor Name: American Rock Salt Company LLC

DISTRICT 5			
County	Delivery Site Location	Estimated Quantity	Vendor Bid Price (cost per ton)
<i>Berkeley</i>	Martinsburg Headquarters - 0571 Storage Bldg	500	
	Tabler Station - 0502 Storage Bldg	500	
	Berkeley County Headquarters	500	
<i>Berkeley County Total</i>		1,500	\$128.21
<i>Grant</i>	Grant Co. HQ	200	
	Mt. Storm Substation	1,000	
	Corridor H @ Knobley Road	500	
<i>Grant County Total</i>		1,700	\$110.67
<i>Hampshire</i>	Hampshire Co. HQ	500	
	Capon Bridge Substation	400	
	Slanesville	300	
<i>Hampshire County Total</i>		1,200	\$115.43
<i>Hardy</i>	Hardy Co. HQ	500	
	Baker Substation	500	
<i>Hardy County Total</i>		1,000	\$122.00
<i>Jefferson</i>	Jefferson County Headquarters - 0519 Storage Bldg	500	
	9/340 Expressway Headquarters - 0564 Storage Bldg	500	
<i>Jefferson County Estimated Total</i>		1,000	\$131.66
<i>Mineral</i>	Mineral Co. HQ	500	
	Skyline Substation	400	
	Short Gap Substation	300	
	District 5 HQ	100	
<i>Mineral County Total</i>		1,300	\$112.00
<i>Morgan</i>	Morgan Co. HQ	500	
	Largent Substation	300	
<i>Morgan County Total</i>		800	\$118.52
DISTRICT 5 TOTAL		8,500	

ROADWAY SALT - SODIUM CHLORIDE
Attachment A Pricing Pages
District 6 - Delivery

Vendor shall complete ATT A by providing a price per ton for the delivery of roadway salt to any or all Counties listed. Vendor shall NOT add, delete, or modify spreadsheet column and row headers, descriptions, units of measure, or estimated quantities. Exhibit A - "WVDOH Delivery Site Information" contains detailed location and contact information for delivery site locations listed below.

Vendor Name: American Rock Salt Company LLC

DISTRICT 6			
County	Delivery Site Location	Estimated Quantity	Vendor Bid Price (cost per ton)
<i>Brooke</i>	Brooke County HQ	1,500	
	US 22 Substation	1,500	
<i>Brooke County Total</i>		3,000	\$87.00
<i>Hancock</i>	Hancock County HQ	2,000	
	<i>Hancock County Total</i>		2,000
<i>Marshall</i>	Marshall Co. HQ	2,900	
	Lynn Camp Substation	700	
	Cameron Substation	1,550	
	Sand Hill Substation	650	
<i>Marshall County Total</i>		5,800	\$94.00
<i>Ohio</i>	Ohio Co. HQ	2,000	
	I-70 Interstate HQ	3,500	
<i>Ohio County Total</i>		5,500	\$85.50
<i>Tyler</i>	Tyler Co. HQ	1,100	
	Centerville Substation	800	
<i>Tyler County Total</i>		1,900	\$106.00
<i>Wetzel</i>	Wetzel Co. HQ	1,100	
	Pine Grove Substation	700	
	Hundred Substation	900	
<i>Wetzel County Total</i>		2,700	\$114.00
DISTRICT 6 TOTAL		20,900	

ROADWAY SALT - SODIUM CHLORIDE
Attachment A Pricing Pages
District 7 - Delivery

Vendor shall complete ATT A by providing a price per ton for the delivery of roadway salt to any or all Counties listed. Vendor shall NOT add, delete, or modify spreadsheet column and row headers, descriptions, units of measure, or estimated quantities. Exhibit A - "WVDOH Delivery Site Information" contains detailed location and contact information for delivery site locations listed below.

Vendor Name: American Rock Salt Company LLC

DISTRICT 7			
County	Delivery Site Location	Estimated Quantity	Vendor Bid Price (cost per ton)
<i>Barbour</i>	Barbour Co. HQ (000111)	1400	
	Belington Substation (000113)	1100	
<i>Barbour County Total</i>		2,500	\$101.77
<i>Braxton</i>	Braxton County HQ (000444)	800	
	Heaters Substation (000431)	600	
	Coon Knob Substation (000405)	1200	
	Burnsville Substation (000432)	1300	
<i>Braxton County Total</i>		3,900	\$118.93
<i>Gilmer</i>	Gilmer County HQ (001110)	700	
<i>Gilmer County Total</i>		700	\$121.44
<i>Lewis</i>	Lewis County HQ (002108)	1200	
	APD (Weston Mudlick) (002187)	900	
<i>Lewis County Total</i>		2,100	\$111.12
<i>Upshur</i>	Clow Lot/Upshur County HQ (004912)	2400	
	Tennerton/Upshur County SubHQ (004903)	100	
	Kanawha Head	800	
<i>Upshur County Total</i>		3,300	\$117.61
<i>Webster</i>	Cherry Falls	400	
	RT 20/Cowen Substation (005110)	0	
	Webster County HQ @ Bolair	1000	
	Hacker Valley Substation (005120)	100	
<i>Webster County Total</i>		1,500	\$128.35
DISTRICT 7 TOTAL		14,000	

ROADWAY SALT - SODIUM CHLORIDE
Attachment A Pricing Pages
District 8 - Delivery

Vendor shall complete ATT A by providing a price per ton for the delivery of roadway salt to any or all Counties listed. Vendor shall NOT add, delete, or modify spreadsheet column and row headers, descriptions, units of measure, or estimated quantities. Exhibit A - "WVDOH Delivery Site Information" contains detailed location and contact information for delivery site locations listed below.

Vendor Name: American Rock Salt Company LLC

DISTRICT 8			
County	Delivery Site Location	Estimated Quantity	Vendor Bid Price (cost per ton)
<i>Pendleton</i>	Franklin, 220 North	500	
	Judy Gap Substation	400	
	Brandywine Stockpile	250	
	Sugar Grove Substation	300	
	Onego Stockpile	50	
	Franklin Rt. 220 South Lot	200	
<i>Pendleton County Total</i>		1,700	\$125.45
<i>Pocahontas</i>	Pocahontas County HQ	800	
	Seebert Stockpile	500	
	Green Bank Substation	400	
	Bartow Lot	500	
	Snowshoe Stockpile	100	
	Slaty Fork Stockpile	300	
<i>Pocahontas County Total</i>		2,600	\$130.34
<i>Randolph</i>	Randolph Co. HQ	800	
	Harman Substation	550	
	Coalton Substation	650	
	Alpena Saltshed	150	
	Valley Head Substation	500	
	Mill Creek Substation	550	
	Pickens Substation	300	
	Corridor H	800	
<i>Randolph County Total</i>		4,300	\$117.83
<i>Tucker</i>	Tucker Co. HQ	700	
	Thomas Substation	700	
	Corrido H - Thomas	500	
<i>Tucker County Total</i>		1,900	\$110.99
DISTRICT 8 TOTAL		10,500	

ROADWAY SALT - SODIUM CHLORIDE
Attachment A Pricing Pages
District 9 - Delivery

Vendor shall complete ATT A by providing a price per ton for the delivery of roadway salt to any or all Counties listed. Vendor shall NOT add, delete, or modify spreadsheet column and row headers, descriptions, units of measure, or estimated quantities. Exhibit A - "WVDOH Delivery Site Information" contains detailed location and contact information for delivery site locations listed below.

Vendor Name: American Rock Salt Company LLC

DISTRICT 9			
County	Delivery Site Location	Estimated Quantity	Vendor Bid Price (cost per ton)
<i>Fayette</i>	Oak Hill APD	5,700	
	Lookout Substation	0	
	Falls View Substation	500	
<i>Fayette County Estimated Total</i>		6,200	No Bid
<i>Greenbrier</i>	Greenbrier Co. HQ	1,500	
	Crawley Substation	3,200	
	Hart's Run Substation	1,300	
<i>Greenbrier County Estimated Total</i>		6,000	No Bid
<i>Monroe</i>	Monroe Co. HQ	800	
	Peterstown Substation	600	
<i>Monroe County Estimated Total</i>		1,400	No Bid
<i>Nicholas</i>	Nicholas Co. HQ	3,000	
	Curtin Substation	2,000	
	Corridor L/Muddlety Substation	3,000	
<i>Nicholas County Estimated Total</i>		8,000	No Bid
<i>Summers</i>	Summers Co. HQ	1,400	
<i>Summers County Estimated Total</i>		1,400	No Bid
DISTRICT 9 TOTAL		23,000	

ROADWAY SALT - SODIUM CHLORIDE
Attachment A Pricing Pages
District 10 - Delivery

Vendor shall complete ATT A by providing a price per ton for the delivery of roadway salt to any or all Counties listed. Vendor shall NOT add, delete, or modify spreadsheet column and row headers, descriptions, units of measure, or estimated quantities. Exhibit A - "WVDOH Delivery Site Information" contains detailed location and contact information for delivery site locations listed below.

Vendor Name: American Rock Salt Company LLC

DISTRICT 10			
County	Delivery Site Location	Estimated Quantity	Vendor Bid Price (cost per ton)
<i>McDowell</i>	McDowell County HQ	1,800	
	Yukon Substation	270	
	Johnny Cake Substation	450	
	Raysal	450	
<i>McDowell County Estimated Total</i>		2,970	No Bid
<i>Mercer</i>	Mercer County HQ	2,340	
	Flat Top Substation	270	
	I-77 near Princeton	2,340	
<i>Mercer County Estimated Total</i>		4,950	No Bid
<i>Raleigh</i>	Raleigh County HQ	7,200	
	Bolt Substation	90	
	Bragg Substation	4,500	
<i>Raleigh County Estimated Total</i>		11,790	No Bid
<i>Wyoming</i>	Wyoming County HQ	2,700	
	Still Run Substation	900	
	Hanover Outpost	90	
<i>Wyoming County Estimated Total</i>		3,690	No Bid
DISTRICT 10 TOTAL		23,400	

ROADWAY SALT - SODIUM CHLORIDE
Attachment A Pricing Pages
WV Parkways Authority - Delivery

Vendor shall complete ATT A by providing a price per ton for the delivery of roadway salt to any or all Counties listed. Vendor shall NOT add, delete or modify spreadsheet column and row headers, descriptions, units of measure, or estimated quantities. Exhibit A - "WVDOH Delivery Site Information" contains detailed location and contact information for delivery site locations listed below.

Vendor Name: American Rock Salt Company LLC

WV PARKWAYS AUTHORITY			
County	Delivery Site Location	Estimated Quantity	Vendor Bid Price (cost per ton)
<i>Kanawha</i>	Chelyan Maintenance	3000	
	Standard Maintenance	2900	
<i>Kanawha County Estimated Total</i>		5,900	No Bid
<i>Mercer</i>	Princeton Maintenance	1500	
	<i>Mercer County Estimated Total</i>		1,500
<i>Raleigh</i>	Beckley Maintenance	6700	
	Ghent Maintenance	4100	
<i>Raleigh County Estimated Total</i>		10,800	No Bid
WV PARKWAYS' TOTAL		18,200	

ROADWAY SALT - SODIUM CHLORIDE
Attachment A Pricing Pages
Agency Pick-up

Vendor shall provide a physical 911 address and a price per ton for roadway salt to be available for pick-up by WVDOH Agencies. Vendor pricing shall include Vendor loading Agency trucks.

Vendor Storage Site Locations	Vendor Bid Price (cost per ton)
2124 Schoonmaker Ave.	\$78.00/ton pickup
Belle Vernon, PA 15012	

2. **Commercial General Liability Insurance**

Commercial General Liability Insurance provides coverage for the insured against claims for damages or injuries caused by the insured's operations, products, or services. This coverage is essential for businesses to protect their assets and reputation.

C. **Duties In The Event Of Occurrence, Offense, Claim Or Suit** **Section IV – Commercial General Liability Conditions**

Section IV – Commercial General Liability Conditions

- (1) **Section IV – Commercial General Liability Conditions**
- (2) **Section IV – Commercial General Liability Conditions**
- (3) **Section IV – Commercial General Liability Conditions**

D. **Section IV – Commercial General Liability Conditions**

1. **Other Insurance** **Section IV – Commercial General Liability Conditions**

Primary and Noncontributory insurance

Primary and noncontributory insurance means insurance that is not excluded, is not a contract of excess insurance, and is not a contract of non-admitted surplus lines insurance.

- (1) **Section IV – Commercial General Liability Conditions**
- (2) **Section IV – Commercial General Liability Conditions**

2. **Excess Insurance** **Section IV – Commercial General Liability Conditions**

Section IV – Commercial General Liability Conditions

Excess insurance means insurance that is not excluded, is not a contract of primary insurance, and is not a contract of non-admitted surplus lines insurance. It provides coverage in excess of the primary policy.

E. **Section IV – Commercial General Liability Conditions**

F. **Limits Of Insurance** **Section III – Limits Of Insurance**

Section III – Limits Of Insurance

- a. **Section III – Limits Of Insurance**
- b. **Section III – Limits Of Insurance**

Section III – Limits Of Insurance

Other Insurance Amendment – Primary And Non-Contributory



Policy No.	Eff. Date of Pol.	Exp. Date of Pol.	Eff. Date of End.	Producer No.	Add'l. Prem	Return Prem.
000008000008	00300003	00300004		040000	INCL	

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

Named Insured

Address (including ZIP Code)

Commercial General Liability Coverage Part

1. Commercial General Liability Conditions IV – Commercial General Liability Conditions

a.

b.

2. Commercial General Liability Conditions 4.b. Commercial General Liability Conditions

WAIVER OF TRANSFER OF RIGHTS OF RECOVERY AGAINST OTHERS TO US

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART
PRODUCTS/COMPLETED OPERATIONS LIABILITY COVERAGE PART

SCHEDULE

Name Of Person Or Organization:

BLANKET AS REQUIRED BY WRITTEN CONTRACT.

Information required to complete this Schedule, if not shown above, will be shown in the Declarations.

The following is added to Paragraph 8. **Transfer Of Rights Of Recovery Against Others To Us** of **Section IV – Conditions:**

We waive any right of recovery we may have against the person or organization shown in the Schedule above because of payments we make for injury or damage arising out of your ongoing operations or "your work" done under a contract with that person or organization and included in the "products-completed operations hazard". This waiver applies only to the person or organization shown in the Schedule above.



**AMERICAN
ROCK SALT™**

Mined with pride in the U.S.A.

Certificate of Analysis

Sample: *October 2023 Ice Control Salt Composite Sample*

Product: Ice Control Rock Salt
American Rock Salt Company LLC

Certificate Date: November 20, 2023

<u>Gradation:</u> <u>Screen Analysis:</u> <u>Sieve</u>	<u>Rock Salt</u> <u>Results:</u> <u>% Passing</u>	<u>ASTM Specs:</u> <u>% Passing</u>
1/2	100.0	100
3/8	96.9	95 to 100
4	65.5	20 to 90
8	33.5	10 to 60
30	9.9	0 to 15
YPS: (Yellow Prussiate of Soda, Anti-caking agent)	95.0 ppm	20 ppm
% Moisture:	0.08%	< 2%
% Water Insolubles:	2.3%	
% Na₂SO₄:	1.7%	
% Sodium Chloride:	96.0%	Minimum 95%

Prepared by:

Sharon Hinkson
Environmental & QA Scientist
American Rock Salt Company LLC



SAFETY DATA SHEET

Prepared to U.S. OSHA, CMA, ANSI, Canadian WHMIS Standards, Australian WorkSafe, Japanese Industrial Standard JIS Z 7250:2000, and European Directives

1. PRODUCT IDENTIFICATION

1.1 COMMON NAME:	Rock Salt, Halite, Salt
CHEMICAL NAME:	Sodium Chloride
CHEMICAL FORMULA:	NaCl
CAS#:	7647-14-5
PRODUCT NAMES AS LABELED:	Bulk Ice Control (Product Number BIC) The de-icing of roads, walkways and surfaces
1.2 PRODUCT USE:	
1.3 MANUFACTURER'S NAME:	American Rock Salt Company LLC
ADDRESS:	5520 Route 63, Mount Morris, New York 14510
BUSINESS PHONE:	1-585-243-9510
FAX NUMBER:	1-585-243-4353
WEB SITE:	www.americanrocksalt.com
1.4 EMERGENCY PHONE NUMBER:	
EMERGENCY PHONE #:	1-585-243-9544
EMAIL:	SDS@americanrocksalt.com
1.5 PREPARATION INFORMATION:	
DATE OF CURRENT REVISION:	August 13, 2018 (Rev 2)
DATE OF LAST REVISION:	June 10, 2015 (Rev 1)

2. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW:

Product Description: This product is a white to off-white crystalline solid with no odor.

Health Hazards: Exposure to this product may cause irritation to eyes. Prolonged contact may cause skin irritation. May cause respiratory tract irritation.

Flammability Hazards: This product is a non-flammable solid.

Reactivity Hazards: None known

Environmental Hazards: The Environmental effects of this product have not been investigated. Release of this product is not expected to have significant adverse effects in the aquatic environment.

2.1 CLASSIFICATION OF SUBSTANCE OR MIXTURE IN ACCORDANCE WITH 29 CFR 1200 (OSHA HCS) AND THE EUROPEAN UNION DIRECTIVES:

This product does meet the definition of a hazardous substance or preparation as defined by 29 CFR 1910. 1200 AND the European Union Council Directives 67/548/EEC, 1999/45/EC, 1272/2008/EC and subsequent Directives.

Component(s) Contributing to Classification(s)

Sodium Chloride

2.2 LABEL ELEMENTS:

GHS Pictograms:



Signal Word: WARNING!

GHS Hazard Classification(s):

Skin Irritant Category 2

Eye Irritant Category 2A

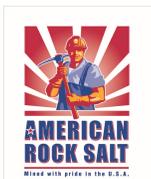
STOT SE Category 3

Hazard Statement(s):

H315: Causes skin irritation

H319: Causes serious eye irritation

H335: May cause respiratory irritation



SAFETY DATA SHEET

Prevention Statement(s):

- P261: Avoid breathing fume/mist/vapors/spray.
- P264: Wash skin after handling.
- P271: Use only outdoors or in a well-ventilated area.
- P280: Wear protective gloves/protective clothing/eye protection.

Response Statement(s):

- P302+P352: IF ON SKIN: Wash with plenty of water.
- P321: Specific treatment (See section 4 of this SDS).
- P332+P313: If skin irritation occurs: Get medical advice/attention.
- P362+P364: Take off contaminated clothing and wash it before reuse.
- P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337+P313: If eye irritation persists: Get medical advice/attention.
- P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P312: Call a POISON CENTER/doctor if you feel unwell.

Storage Statement(s):

- P403+P233: Store in a well-ventilated place. Keep container tightly closed.
- P405: Store locked up.

Disposal Statement(s):

- P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 HEALTH HAZARDS OR RISKS FROM EXPOSURE:

SYMPTOMS OF OVEREXPOSURE BY ROUTE OF EXPOSURE: The most significant routes of exposure for this product are by inhalation, skin contact, eye contact or ingestion.

ACUTE:

INHALATION: Inhalation may be irritating to the respiratory tract.

CONTACT WITH SKIN: Repeated or prolonged contact may cause skin irritation.

EYE CONTACT: Contact may irritate the eyes, resulting in redness or watering.

INGESTION: Ingestion of a large quantity may cause gastrointestinal irritation with nausea and vomiting.

CHRONIC: None known

TARGET ORGANS: **Acute:** Eyes, Skin, Respiratory System

Chronic: None Known

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Hazardous Ingredients:	WT%	CAS#	EINECS #	Index #	GHS Classifications
Sodium Chloride	>99%	7647-14-5	231-598-3	Not Listed	Skin Irritant Cat 2, Eye Irritant Cat 2A, STOT SE Cat 3
YPS (Yellow Prussiate of Soda) Sodium Ferrocyanide	0.0075%	13601-19-9	237-081-9	Not Listed	Eye Irritant Cat 2A
Liquid Calcium Chloride (Anhydrous, 20 – 45% CaCl ₂ Solution)	0.0017%	10043-52-4	233-140-8	017-013-00-2	Eye Irritant Cat 2A
Liquid Calcium Chloride may be present on salt. Added to YPS delivery system during cold months					
Balance of other ingredients is less than 1% in concentration (or 0.1% for carcinogens, reproductive toxins, or respiratory sensitizers).					

4. FIRST-AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES:

EYE CONTACT: If product enters the eyes, open eyes while under gentle running water for at least 15 minutes. Seek medical attention if irritation persists.

SKIN CONTACT: If product contacts skin, wash skin thoroughly with soap and water after handling. Seek medical attention if irritation develops and persists.

INHALATION: If breathing becomes difficult, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Seek medical attention.

INGESTION: If product is swallowed, call physician or poison control center for most current information. If professional advice is not available, do not induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Seek medical advice. Take a copy of the label and/or SDS with the victim to the health professional.



SAFETY DATA SHEET

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known

4.2 SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:

Exposure to this product may cause irritation to skin and eyes. Inhalation of dust may cause irritation to respiratory system. May be harmful if swallowed with digestive tract irritation and vomiting.

4.3 RECOMMENDATIONS TO PHYSICIANS: Treat symptoms and eliminate overexposure.

5. FIRE-FIGHTING MEASURES

5.1 FIRE EXTINGUISHING MATERIALS:

Use fire extinguishing methods below:

Water Spray: Yes Carbon Dioxide: Yes
Foam: Yes Dry Chemical: Yes
Halon: Yes Other: Any "C" Class

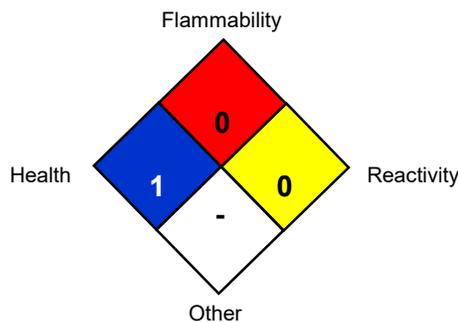
5.2 UNUSUAL FIRE AND EXPLOSION HAZARDS:

None known
Explosion Sensitivity to Mechanical Impact: No
Explosion Sensitivity to Static Discharge: No

5.3 SPECIAL FIRE-FIGHTING PROCEDURES:

Incipient fire responders should wear eye protection. Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.

NFPA RATING SYSTEM



HMIS RATING SYSTEM

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM			
HEALTH HAZARD (BLUE)	1		
FLAMMABILITY HAZARD (RED)	0		
PHYSICAL HAZARD (YELLOW)	0		
PROTECTIVE EQUIPMENT			
EYES	RESPIRATORY	HANDS	BODY
	See Sect 8		See Sect 8
For Routine Industrial Use and Handling Applications			

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

6. ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

See section 8.2 for Exposure Controls.

6.2 ENVIRONMENTAL PRECAUTIONS:

No specific hazards connected with leaks and splits.

6.3 SPILL AND LEAK RESPONSE:

Sweep up spilled materials and place in appropriate container for disposal or re-use. Dispose of in accordance with U.S. Federal, State, and local hazardous waste disposal regulations and those of Canada and its Provinces, those of Australia, Japan and EU Member States (see Section 13, Disposal Considerations).

7. HANDLING and STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING:

Establish good personal hygiene and work practices. Always wash hands and face before eating, drinking or smoking.

7.2 STORAGE AND HANDLING PRACTICES:

Store in a dry area with <75% relative humidity to avoid caking.



SAFETY DATA SHEET

7.3 SPECIFIC USES:

De-icing roads and walkways.

8. EXPOSURE CONTROLS - PERSONAL PROTECTION

8.1 EXPOSURE PARAMETERS:

Chemical Name	CAS#	ACGIH TLV	OSHA TWA
Sodium Chloride	7647-14-5	10 mg/m ³ Total Dust	15 mg/m ³ Total Dust

8.2 EXPOSURE CONTROLS:

VENTILATION AND ENGINEERING CONTROLS: Use with adequate ventilation to ensure exposure levels are maintained below the limits provided above.

The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132) or equivalent standard of Canada, or standards of EU member states (including EN 149 for respiratory PPE, and EN 166 for face/eye protection), and those of Japan. Please reference applicable regulations and standards for relevant details.

RESPIRATORY PROTECTION: Not normally required when using this product. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93, the European Standard EN149, or EU member states.

EYE PROTECTION Safety glasses or goggles are recommended to prevent eye contact. If necessary, refer to U.S. OSHA 29 CFR 1910.133, Canadian Standards, and the European Standard EN166, Australian Standards, or relevant Japanese Standards.

HAND PROTECTION: Protective gloves are recommended to prevent skin contact. If necessary, refer to U.S. OSHA 29 CFR 1910.138, the European Standard DIN EN 374, the appropriate Standards of Canada, Australian Standards, or relevant Japanese Standards.

BODY PROTECTION: Use body protect appropriate to task being performed. If necessary, refer to appropriate Standards of Canada, or appropriate Standards of the EU, Australian Standards, or relevant Japanese Standards.

9. PHYSICAL and CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE (Physical State) and COLOR: This product is a white to off-white crystalline solid with no odor.

ODOR: None

ODOR THRESHOLD: Not Applicable

pH: Not Applicable

MELTING/FREEZING POINT: Not Applicable

BOILING POINT: >2575°F

FLASH POINT: Not Applicable

EVAPORATION RATE (n-BuAc=1): Not Available

FLAMMABILITY (SOLID, GAS): Not Applicable

UPPER/LOWER FLAMMABILITY OR EXPLOSION LIMITS: Not Applicable

VAPOR PRESSURE (mm Hg @ 20°C (68°F): 2.4 mm @ 1376°F

VAPOR DENSITY: Not Applicable

RELATIVE DENSITY: Not Applicable

DENSITY: Not Applicable

SPECIFIC GRAVITY: 2.165

SOLUBILITY IN WATER: 317 g/l @ 60°F

WEIGHT PER GALLON: Not Available

PARTITION COEFFICIENT (n-octanol/water): Not Applicable

AUTO-IGNITION TEMPERATURE: Not Applicable

DECOMPOSITION TEMPERATURE: Not Available

VISCOSITY: Not Available

VOC g/l / Lb/gal: 0

9.2 OTHER INFORMATION:

No additional information available.



SAFETY DATA SHEET

10. STABILITY and REACTIVITY

10.1 REACTIVITY:

This product is not reactive.

10.2 STABILITY:

Stable under conditions of normal storage and use.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS:

Chemical reactions occur when this product is involved with strong acids such as sulfuric or nitric acid.

10.4 CONDITIONS TO AVOID:

Incompatible materials.

10.5 MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE:

Strong acids.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition products include hydrochloric acid.

11. TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS:

TOXICITY DATA:

CAS#: 7647-14-5

Oral, rat: LD50 = 3,000 mg/kg;

SUSPECTED CANCER AGENT: None of the ingredients within this product are found on the following lists: FEDERAL OSHA Z LIST, NTP, IARC, or CAL/OSHA and therefore are not considered to be, or suspected to be, cancer-causing agents by these agencies.

IRRITANCY OF PRODUCT: This product may be irritating to skin, eyes or respiratory system.

SENSITIZATION TO THE PRODUCT: This product is not considered a respiratory system or skin sensitizer.

REPRODUCTIVE TOXICITY INFORMATION: No information concerning the effects of this product and its components on the human reproductive system.

SPECIFIC TARGET ORGAN TOXICITY – SINGLE EXPOSURE: Eyes, Respiratory System and Skin

SPECIFIC TARGET ORGAN TOXICITY – REPEATED EXPOSURE: None known

ASPIRATION HAZARD: None

12. ECOLOGICAL INFORMATION

12.1 TOXICITY:

This material is water soluble and occurs naturally, and is unlikely to have any long term effect on the environment. However, large or frequent applications or spills can have a potentially damaging effect on the environment.

12.2 PERSISTENCE AND DEGRADABILITY:

This material is not organic and therefore does not undergo biodegradation.

12.3 BIOACCUMULATIVE POTENTIAL:

Based on available information, the sodium chloride present may bioaccumulate in some aquatic organisms.

12.4 MOBILITY IN SOIL:

This material is water soluble and is expected to move rapidly with surface water or ground water flows.

12.5 RESULTS OF PBT AND vPvB ASSESSMENT:

No specific data available on this product.

12.6 OTHER ADVERSE EFFECTS:

No specific data available on this product.

ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.

12.7 WATER ENDANGERMENT CLASS:

Water endangering in accordance with EU Guideline 91/155-EWG. Not determined

13. DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS:

Waste disposal must be in accordance with appropriate U.S. Federal, State, and local regulations, those of Canada, Australia, EU Member States and Japan.



SAFETY DATA SHEET

13.2 EU Waste Code:

Not determined.

14. TRANSPORTATION INFORMATION

US DOT, IATA, IMO, ADR:

U.S. DEPARTMENT OF TRANSPORTATION (DOT) SHIPPING REGULATIONS: This product is classified (per 49 CFR 172.101) by the U.S. Department of Transportation, as follows.

14.1 PROPER SHIPPING NAME: Non-Regulated Material

14.2 HAZARD CLASS NUMBER and DESCRIPTION: None

14.3 UN IDENTIFICATION NUMBER: None

14.4 PACKING GROUP: None

14.5 DOT LABEL(S) REQUIRED: None

NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER: None

RQ QUANTITY: None

14.6 MARINE POLLUTANT: None of the components of this product are designated by the Department of Transportation to be Marine Pollutants (49 CFR 172.101, Appendix B).

14.7 SPECIAL PRECAUTIONS FOR USER:

Avoid exposure

14.8 INTERNATIONAL TRANSPORTION:

INTERNATIONAL AIR TRANSPORT ASSOCIATION SHIPPING INFORMATION (IATA): This product is not considered as dangerous goods.

INTERNATIONAL MARITIME ORGANIZATION SHIPPING INFORMATION (IMO): This product is not considered as dangerous goods.

14.9 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND IBC CODE:

EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD (ADR): This product is not considered by the United Nations Economic Commission for Europe to be dangerous goods.

15. REGULATORY INFORMATION

15.1 UNITED STATES REGULATIONS:

U.S. SARA REPORTING REQUIREMENTS: The components of this product are not subject to the reporting requirements of Sections 302, 304, and 313 of Title III of the Superfund Amendments and Reauthorization Act.

U.S. SARA THRESHOLD PLANNING QUANTITY: There are no specific Threshold Planning Quantities for the components of this product. The default Federal SDS submission and inventory requirement filing threshold of 10,000 lbs (4,540 kg) therefore applies, per 40 CFR 370.20.

U.S. CERCLA REPORTABLE QUANTITY (RQ): None

U.S. TSCA INVENTORY STATUS: The components of this product are listed on the TSCA Inventory or are exempted from listing.

OTHER U.S. FEDERAL REGULATIONS: None

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65): Ingredients within this product are not on the Proposition 65 Lists.

15.2 CANADIAN REGULATIONS:

CANADIAN DSL/NDSL INVENTORY STATUS: All components are DSL Listed, NDSL Listed and/or are exempt from listing.

OTHER CANADIAN REGULATIONS: Not applicable.

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all of the information required by those regulations.

CANADIAN WHMIS CLASSIFICATION and SYMBOLS: This product has been classified per WHMIS 2015.

15.3 EUROPEAN ECONOMIC COMMUNITY INFORMATION:

This product does meet the definition of a hazardous substance or preparation as defined by the European Union Council Directives 67/548/EEC, 1999/45/EC, 1272/2008/EC and subsequent Directives.

See Section 2 for full Details.

15.4 AUSTRALIAN INFORMATION FOR PRODUCT:

The components of this product are listed on the International Chemical Inventory list.



SAFETY DATA SHEET

15.5 JAPANESE INFORMATION FOR PRODUCT:

JAPANESE MINISTER OF INTERNATIONAL TRADE AND INDUSTRY (MITI) STATUS:

The components of this product are not listed as Class I Specified Chemical Substances, Class II Specified Chemical Substances, or Designated Chemical Substances by the Japanese MITI.

JAPANESE ENCS INVENTORY:

The components of this product are on the ENCS Inventory as indicated in the section on International Chemical Inventories, below.

POISONOUS AND DELETERIOUS SUBSTANCES CONTROL LAW:

No component of this product is a listed Specified Poisonous Substance under the Poisonous and Deleterious Substances Control Law.

15.6 INTERNATIONAL CHEMICAL INVENTORIES:

Listing of the components on individual country Chemical Inventories is as follows:

Asia-Pac: Listed

Australian Inventory of Chemical Substances (AICS): Listed

Korean Existing Chemicals List (ECL): Listed

Japanese Existing National Inventory of Chemical Substances (ENCS): Listed

Philippines Inventory of Chemicals and Chemical Substances (PICCS): Listed

Swiss Giftlist List of Toxic Substances: Listed

U.S. TSCA: Listed

16. OTHER INFORMATION

16.1 ABBREVIATIONS AND ACRONYMS:

ARD: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

NFPA: National Fire Protection Association (USA)

PREPARED BY: Chris Eigbrett (**MSDS to GHS Compliance**)

All statements, technical information and recommendations contained herein are, to the best of our knowledge, reliable and accurate, however, no warranty, either expressed or implied, is made with respect thereto, nor will any liability be assumed for damages resultant from the use of the material described.

It is the responsibility of the user to comply with all applicable federal, state and local regulations. It is also the responsibility of the user to maintain a safe workplace. The user should consider the health hazards and safety information provided herein as a guide and should take the necessary steps to instruct employees and to develop work practice procedures to ensure a safe work environment.

This information is not intended as a license to operate under, or a recommendation to practice or infringe upon any patent of the company or others covering any process, composition of matter or use.

END OF SDS SHEET

3. PROCEDURE

- Add 3 ml of working solution to each flask. Mix thoroughly. Allow to stand for 10 minutes. Read the optical density at 600 nm. Record the reading.

Flask #	mls of working solution to add	Equivalent Micrograms Anhydrous YPS per ml.
1	3	3
2	3	3
3	3	3
4	3	3
5	8	8
6	3	3
7	3	3
8	3	3
9	3	3
10	4	4

- Add 3 ml of working solution to each flask. Mix thoroughly. Allow to stand for 10 minutes. Read the optical density at 600 nm. Record the reading.

- Add 3 ml of working solution to each flask. Mix thoroughly. Allow to stand for 10 minutes. Read the optical density at 600 nm. Record the reading.

4. FREE YPS (ROCK SALT)

1. Weigh 100 g of rock salt into a 250 ml beaker. Add 100 ml of distilled water. Stir until the salt is completely dissolved. Transfer the solution to a 250 ml volumetric flask. Add distilled water to the mark. Mix thoroughly. This is the 100% stock solution.

2. Add 10 ml of the 100% stock solution to each of the 10 flasks. Mix thoroughly. Allow to stand for 10 minutes. Read the optical density at 600 nm. Record the reading.

5. TOTAL YPS (ROCK SALT)

1. Weigh 100 g of rock salt into a 250 ml beaker. Add 100 ml of distilled water. Stir until the salt is completely dissolved. Transfer the solution to a 250 ml volumetric flask. Add distilled water to the mark. Mix thoroughly. This is the 100% stock solution.

2. Add 10 ml of the 100% stock solution to each of the 10 flasks. Mix thoroughly. Allow to stand for 10 minutes. Read the optical density at 600 nm. Record the reading.

Safety Data Sheet

Date of Revision: 11/27/2017

Sodium Ferrocyanide

Section 1 - Chemical Product and Company Identification

WEGO CHEMICAL GROUP

239 Great Neck Road - Great Neck, NY 11021 - USA

Tel: +1 (516) 487 3510 - Fax: +1 (516) 487 3794

sales@wegochem.com - wegochem.com

Product/Chemical Name: Sodium Ferrocyanide

Chemical Formula: $\text{Na}_4\text{Fe}(\text{CN})_6 \cdot 10\text{H}_2\text{O}$

CAS Number: 14434-22-1

Other Designations: Sodium Ferrocyanide decahydrate; sodium hexacyanoferrate; YPS

Derivation:

General Use: Manufacture of sodium ferricyanide, blue pigments, blueprint paper, anti-caking agent for salt, ore flotation, pickling metals, polymerization catalyst, photographic fixing agent.

Emergency Telephone: (ChemTel) Contract MIS0000335; 800 255-3924; INTL 813 248-0585

Section 2 - Hazards Identification

☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

MAY CAUSE EYE AND SKIN IRRITATION. AVOID CONTACT WITH EYES, SKIN AND CLOTHING. WASH THOROUGHLY AFTER HANDLING. MAY BE HARMFUL IF SWALLOWED.

HMIS	
H	2
F	0
R	0
PPE†	
†Sec. 8	

Potential Health Effects

Primary Entry Routes: Inhalation, Ingestion

Target Organs: None listed

HAZARDS IDENTIFICATION

Label elements

None

Hazard symbol

None

Signal word

None

Hazard statement

The mixture does not meet the criteria for classification.

Precautionary statement

Prevention

Observe good industrial hygiene practices.

Response

Wash hands after handling.

Storage

Store away from incompatible materials.

Disposal

Dispose of waste and residues in accordance with local authority requirements

Hazard(s) not otherwise classified (HNOC) None

Acute Effects

Inhalation: May cause respiratory tract irritation. May cause anoxia, characterized by weakness, headache, dizziness, confusion, cyanosis, weak and irregular heartbeat, collapse, unconsciousness, convulsions, coma and death.

Eye: May cause mild eye irritation.

Skin: May cause skin irritation.

Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea.

Carcinogenicity: IARC, NTP, and OSHA do not list sodium ferrocyanide as a carcinogen.

Medical Conditions Aggravated by Long-Term Exposure:

Chronic Effects: unknown

Sodium Ferrocyanide

Section 3 - Composition / Information on Ingredients

Ingredient Name	CAS Number	EINECS/ELINCS	% wt or % vol
Sodium Ferrocyanide	14434-22-1	237-081-9	100

Limit values: No limit values have been established for this product for use in the USA and Canada.

Ingredient	OSHA PEL		ACGIH TLV		NIOSH REL		NIOSH
	TWA	STEL	TWA	STEL	TWA	STEL	IDLH
Sodium Ferrocyanide	none estab.						

Section 4 - First Aid Measures

Inhalation: Supply fresh air. If required, provide artificial respiration.

Eye Contact: Rinse opened eye for several minutes under running water. Then consult a doctor if irritation persists.

Skin Contact: Immediately wash with water and soap and rinse thoroughly. Seek medical advice if irritation persists.

Ingestion: If material is swallowed, induce vomiting if patient is conscious. Never give anything by mouth to an unconscious person. Seek medical advice.

After first aid, get appropriate in-plant, paramedic, or community medical support.

Note to Physicians: Treat symptomatically and supportively.

Section 5 - Fire-Fighting Measures

Flash Point: not applicable

Flash Point Method:

Burning Rate:

Auto-ignition Temperature: not determined

LEL: not determined

UEL: not determined

Flammability Classification: Product is not flammable.

Extinguishing Media: Product is not flammable. Use firefighting measures that suit the surrounding fire.

Unusual Fire or Explosion Hazards: none

Hazardous Combustion Products:

Fire-Fighting Instructions: Do not release runoff from fire control methods to sewers or waterways.

Fire-Fighting Equipment: Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face-piece operated in pressure-demand or positive-pressure mode.

NFPA



Section 6 - Accidental Release Measures

Spill /Leak Procedures: Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation. Avoid raising dust. Eliminate flammables. Eliminate all ignition sources. Dispose contaminated material as waste according to official regulations.

Large Spills

Containment: For large spills, dike far ahead of liquid spill for later disposal. Do not release into sewers or waterways.

Cleanup: Water, if necessary with cleansing agents.

Regulatory Requirements: Follow applicable OSHA regulations (29 CFR 1910.120).

Section 7 - Handling and Storage

Handling Precautions: Keep container tightly sealed.

Storage Requirements: Store in a cool, dry, well-ventilated area away from incompatible substances.

Section 8 - Exposure Controls / Personal Protection

Engineering Controls:

Ventilation: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec. 2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

Administrative Controls:

Sodium Ferrocyanide

Respiratory Protection: Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH-approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. For emergency or non-routine operations (cleaning spills, reactor vessels, or storage tanks), wear an SCBA.

Warning! Air-purifying respirators do not protect workers in oxygen-deficient atmospheres. If respirators are used, OSHA requires a written respiratory protection program that includes at least: medical certification, training, fit-testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas.

Protective Clothing/Equipment: Wear chemically protective gloves, boots, aprons, and gauntlets to prevent prolonged or repeated skin contact. Wear protective eyeglasses or chemical safety goggles, per OSHA eye- and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

Safety Stations: Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

Contaminated Equipment: Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment.

Comments: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

Section 9 - Physical and Chemical Properties

Physical State: solid

Appearance and Odor: yellow semi-transparent crystals/odorless

Odor Threshold: not determined

Vapor Pressure: N/A

Vapor Density (Air=1):

Formula Weight: 484.06

Density/Specific Gravity (H₂O=1, at 4 °C): 1.458

pH: N/A

Flash Point: not applicable

Flash Point Method:

Burning Rate: not determined

Auto-ignition Temperature: not determined

Water Solubility: 318.5 g/l @ 20 °C

Other Solubilities: not determined

Boiling Point: N/A

Freezing/Melting Point: N/A

Decomposition Point: 815 °F (435 °C)

Viscosity: not determined

Refractive Index: not determined

Surface Tension: not determined

% Volatile: N/A

Evaporation Rate: N/A

LEL: not determined

UEL: not determined

Section 10 - Stability and Reactivity

Stability: Sodium Ferrocyanide is stable at room temperature in closed containers under normal storage and handling conditions.

Polymerization: Hazardous polymerization cannot occur.

Chemical Incompatibilities: Oxidizing agents, ammonia, chromic acid and strong acids.

Conditions to Avoid: incompatibilities. ACIDS: Evolution of highly toxic and flammable hydrogen cyanide gas. OXIDIZERS (STRONG): Fire and explosion hazard.

Hazardous Decomposition Products: Thermal oxidative decomposition of Sodium Ferrocyanide can produce oxides of nitrogen, carbon monoxide, carbon dioxide and hydrogen cyanide.

Section 11- Toxicological Information

SODIUM FERROCYANIDE:

ADDITIONAL DATA: Because of the strong chemical bond between the cyanide group and the iron, ferrocyanides do not release cyanide under normal conditions. However, certain industrial processes may release hydrogen cyanide which is a chemical asphyxiant.

Toxicity

Oral (rat) LD₅₀: 5100 mg/kg

HEALTH EFFECTS:

INHALATION:

ACUTE EXPOSURE: SODIUM FERROCYANIDE: May cause irritation to the respiratory tract. Ferrocyanides have a low order of toxicity. However, certain industrial processes may release hydrogen cyanide which is a chemical asphyxiant.

CHRONIC EXPOSURE: SODIUM FERROCYANIDE: No data available.

SKIN CONTACT:

ACUTE EXPOSURE:

Sodium Ferrocyanide

SODIUM FERROCYANIDE: May cause irritation.

CHRONIC EXPOSURE:

SODIUM FERROCYANIDE: No specific data available. No dermatitis was reported in workers handling potassium ferrocyanide over a number of years.

EYE CONTACT:

ACUTE EXPOSURE:

SODIUM FERROCYANIDE: Dust may cause irritation.

CHRONIC EXPOSURE:

SODIUM FERROCYANIDE: No data available.

INGESTION:

ACUTE EXPOSURE: SODIUM FERROCYANIDE: The reported probable lethal dose in humans is 0.5-5.0 gm/kg. Ferrocyanide salts are rapidly excreted in urine without metabolic alteration.

CHRONIC EXPOSURE: SODIUM FERROCYANIDE: No data available.

* See NIOSH, *RTECS*, for additional toxicity data.

Section 12 - Ecological Information

Ecotoxicity: data not available.

Environmental Fate: data not available.

Environmental Degradation: data not available.

Soil Absorption/Mobility: data not available.

Section 13 - Disposal Considerations

Disposal: Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable Federal, state, and local regulations.

Disposal Regulatory Requirements:

Section 14 - Transport Information

Not regulated for transportation

US DOT(49 CFR 172.101):

PSN:
Hazard Class:
UN Number:
Packing Group:

IATA

PSN:
Hazard Class:
UN Number:
Packing Group:

IDG

PSN:
Hazard Class:
UN Number:
Packing Group:

IMDG/IMO

PSN:
Hazard Class:
UN Number:
Packing Group:

Section 15 - Regulatory Information

U.S. REGULATIONS:

CERCLA SECTIONS 102a/103 HAZARDOUS SUBSTANCES (40 CFR 302.4): Not regulated.

SARA TITLE III SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355.30):
Not regulated.

SARA TITLE III SECTION 304 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355.40):
Not regulated.

SARA TITLE III SARA SECTIONS 311/312 HAZARDOUS CATEGORIES (40 CFR 370.21):

ACUTE: No

CHRONIC: No

FIRE: No

REACTIVE: No

SUDDEN RELEASE: No

Sodium Ferrocyanide

SARA TITLE III SECTION 313 (40 CFR 372.65): Not regulated.

OSHA PROCESS SAFETY (29CFR1910.119): Not regulated.

STATE REGULATIONS:

California Proposition 65: Not regulated.

CANADIAN REGULATIONS:

WHMIS CLASSIFICATION: D2B. Material causing toxic effects (TOXIC): No products were found.

NATIONAL INVENTORY STATUS:

U.S. INVENTORY (TSCA): Listed on inventory.

TSCA 12(b) EXPORT NOTIFICATION: Not listed.

Section 16 - Other Information

Disclaimer: All information, recommendations and suggestions appearing herein are based upon sources believed to be reliable. However, it is the user's responsibility to determine the safety, toxicity and suitability for its own use of this product. WEGO CHEMICAL GROUP DOES NOT ASSUME ANY LIABILITY ARISING OUT OF THE USE BY OTHERS OF THIS PRODUCT.

