

AUXILIARIES DEPT.

PRODUCTS

COFFEYVILLE, KANSAS

ISSUED: November 1, 1968

PRODUCT	GRADE	SERIAL NUMBER	SPECIFICATIONS		USES	TYPICAL PROPERTIES	
			ASTM	GOVERNMENT		Issued	Reprint
ZINC OXIDE (ZnO)	OZIDE 10R	63			Rubber activator; ceramics; abrasives; agricultural zinc deficiencies; lubricant addi- tives; matches; chemical smokes; floor coverings.	11/1/68	
	OZIDE 20	41	D79-44	TT-P-463a		11/1/68	
LEADED ZINC OXIDES (ZnO, PbO, PbSO ₄)	OZLO 12	82	D80-61		Exterior paints	11/1/68	
	OZLO 18M	49	D80-61			1/2/63	8/1/64
	OZLO 35		D80-61	TT-P-462A		6/1/63	8/1/64
	OZLO 50		D80-61			6/1/63	8/1/64
	OZLO 55		D80-61			6/1/63	8/1/64
AGRICULTURAL ZINC COMPOUND	NUZIDE 78S	85			Spray application - corrects nutritional zinc deficiencies; fertilizer. Agric. Soil Application	11/1/68	
	NUZIDE 70A					4/1/68	
ZINC SULFATE (ZnSO ₄ ·H ₂ O)	360	45			Paint and varnish processing. Alleviate agricultural zinc deficiencies; rayon manufacture; flotation reagent; clarification glue; wood preservaton; electro- galvanizing.	3/1/65	
	361-S	46				3/1/65	
	360-G					7/1/65	
	360-F					9/15/64	
BARIUM CARBONATE (BaCO ₃)	75C	79		JAN-B-624	Beet sugar refining; flat wall paints; ceramics; linoleum; brick manufacture to prevent efflorescence; glass manufact- ure; barium titanate; barium ferrites; ammunition.	11/1/68	
	50F	31		"		11/1/68	
	70F	32		"		11/1/68	
	90F	33		"		11/1/68	
	145G	81		"		11/1/68	
	45T	80		"		11/1/68	
BARIUM MONOHYDRATE (Ba [OH] ₂ ·H ₂ O)		77			Oil additives; plastic stabil- izers and inhibitors; printing inks; water softening.	11/1/68	
LITHOPONE (ZnS + BaSO ₄)	PERMOLITH 20L	53	D477-45	TT-P-400	Latex emulsion paints; leather; linoleum; chalks; crayons; rubber; plastics; patching plaster and crack filler; paper filler.	1/2/63	8/1/64
	PERMOLITH 40M	54	"	"		1/2/63	8/1/64
	PERMOLITH 60H	52	"	"		1/2/63	8/1/64
	PERMOLITH W-320	55	"	"		11/1/68	
	PERMOLITH W-421	57	"	"		1/2/63	8/1/64
	PERMOLITH 60N	56	"	"		1/2/63	8/1/64
	PERMOLITH 60J		"	"		8/1/64	
	PERMOLITH 10N	78				3/1/68	

SHERWIN-WILLIAMS

PIGMENT

COLOR &

CHEMICAL

DEPARTMENT

SPECIFICATION

AUXILIARIES DEPARTMENT
CHICAGO 28, ILLINOIS

ARSENIC ACID

H_3AsO_4

BD-1083

Special Grade

Serial No. 83

Issued November 1, 1968

Miscellaneous Properties

		<u>Method</u>
Appearance	Liquid water white to slight green	70a
Specific Gravity	1.95 - 2.05	70b
Pounds per Gallon	16.27 - 17.10	70c

Chemical Analysis

Arsenic Acid, H_3AsO_4	77.00 - 81.20%	70A
Calc. to As_2O_5	62.4 - 65.8%	70A
Arsenous Oxide, As_2O_3 , Max.	0.35%	70B
Nitric Acid, HNO_3	None	70C

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SHERWIN-WILLIAMS

PIGMENT,
COLOR &
CHEMICAL
DEPARTMENT

TYPICAL PROPERTIES

AUXILIARIES DEPARTMENT
CHICAGO 28, ILLINOIS

ARSENIC ACID
 H_3AsO_4
BD-1083
Special Grade

Issued November 1, 1968

Miscellaneous Properties

Appearance	Water white to slight green
Specific Gravity	2.00
Pounds per Gallon	16.69

Chemical Analysis

Arsenic Acid, H_3AsO_4	79.16 %
Arsenic Acid Calc. to As_2O_5	64.10 %
Arsenous Oxide As_2O_3	0.25 %
Nitric Acid, HNO_3	None
Copper as Cu	0.001%
Lead as Pb	0.010%
Iron as Fe	0.010%
Aluminum, as Al	0.001%
Antimony as Sb	0.100%

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SHERWIN-WILLIAMS**PIGMENT,****COLOR &****CHEMICAL****DEPARTMENT**

SPECIFICATION

AUXILIARIES DEPARTMENT
CHICAGO 28, ILLINOIS

ARSENIC ACID

 H_3AsO_4

BD-1124

Regular Grade

Serial No. 84

Issued November 1, 1968

Miscellaneous PropertiesMethod

Appearance

*See Below

70a

Specific Gravity

1.90 - 2.00

70b

Pounds Per Gallon

15.85 - 16.70

70c

Chemical AnalysisArsenic Acid, H_3AsO_4

74.86 - 79.16%

70A

Arsenic Acid Calc. to As_2O_5

60.6 - 64.1%

70A

Arsenous Oxide, As_2O_3 , Max.

0.75%

70B

Nitric Acid, HNO_3

None

70C

*Liquid, hazy, varying from off white depending on raw material sources.
Not clarified for bulk shipments in tank car or tank truck quantities.

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SHERWIN-WILLIAMS

PIGMENT,
COLOR &
CHEMICAL
DEPARTMENT

TYPICAL PROPERTIES

AUXILIARIES DEPARTMENT
CHICAGO 28, ILLINOIS

ARSENIC ACID
 H_3AsO_4
BD-1124
Regular Grade

Issued November 1, 1968

Miscellaneous Properties

Appearance	*See Below
Specific Gravity	1.95
Pounds per Gallon	16.273

Chemical Analysis

Arsenic Acid, H_3AsO_4	77.0 %
Calc. to As_2O_5	62.35 %
Arsenour Oxide, As_2O_3	0.50 %
Nitric Acid, HNO_3	None
Copper as Cu	0.02 %
Lead as Pb	0.08 %
Iron as Fe	0.05 %
Aluminum as Al	0.01 %
Antimony as Sb	0.60 %

*Liquid, hazy, varying from off white depending on raw material sources.
Not clarified for bulk shipments in tank car or tank truck quantities.

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SHERWIN-WILLIAMS**PIGMENT****COLOR &****CHEMICAL****DEPARTMENT****SPECIFICATION**AUXILIARIES DEPARTMENT
CHICAGO 28, ILLINOISZINC OXIDE
ZnO
OXIDE 10R
Rubber Manufacture

Serial No. 63

Issued March 1, 1965

Miscellaneous Properties

Method

Appearance	White Powder, Grayish Cast	50h
Specific Gravity	5.57	50b
Screen Analysis (Residue 325 Mesh)	0.1% Max.	50f

Chemical Analysis

Zinc Oxide, ZnO, Min.	98.5 %	50A
Lead, Pb, Max.	0.34 %	50K
Copper, Cu, Max.	0.003%	50C
Manganese, Mn, Max.	0.002%	50D
Total Copper Plus Manganese	0.004%	
Cadmium, Cd, Max.	0.005%	50L
Iron, Fe, Max.	0.040%	50B
Sulfur, as SO ₃ , Max.	0.25 %	50P
Water Soluble Salts, Max.	0.5 %	50Q

S40-1-2-63

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SHERWIN-WILLIAMS

**PIGMENT,
COLOR &
CHEMICAL
DEPARTMENT**

TYPICAL PROPERTIES

AUXILIARIES DEPARTMENT
CHICAGO 28, ILLINOIS

Zinc Oxide
ZnO
OZIDE 10R
For
Rubber Manufacture

Issued November 1, 1968

Miscellaneous Properties

Appearance
Specific Gravity
Screen Analysis
Residue 325 Mesh

White Powder, Grayish Cast
5.57
0.09%

Chemical Analysis

Zinc Oxide, ZnO
Lead as Pb
Copper, Cu
Manganese, Mn
Cadmium, Cd
Iron, Fe
Sulfur as SO₃
Water Soluble Salts

98.8 %
0.20 %
0.0025%
0.0008%
0.002 %
0.025 %
0.10 %
0.15 %

T-3-1-65

0007-PMC-000000677

SHERWIN-WILLIAMS

PIGMENT,
COLOR &
CHEMICAL
DEPARTMENT

TYPICAL PROPERTIES

AUXILIARIES DEPARTMENT
CHICAGO 28, ILLINOIS

ZINC OXIDE
ZnO
OZIDE 20
For
General Use

Issued November 1, 1968

Miscellaneous Properties

Appearance	White Powder, Grayish Cast
Specific Gravity	5.57
Screen Analysis (Residue 325 Mesh)	0.09

Chemical Analysis

Zinc Oxide, ZnO	98.8 %
Lead, Pb	0.3 %
Iron, Fe	0.025 %
Manganese, Mn	0.0008%
Cadmium, Cd	0.004 %

T-1-2-63

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SHERWIN-WILLIAMS

PIGMENT,

COLOR &

CHEMICAL

DEPARTMENT

SPECIFICATION

AUXILIARIES DEPARTMENT
CHICAGO 28, ILLINOIS

ZINC OXIDE
ZnO
OZIDE 20
For
General Usage

Serial No. 41

Issued January 2, 1963
Reprinted August 1, 1964

Miscellaneous Properties

		<u>Method</u>
Appearance	White Powder, Grayish Cast	50h
Specific Gravity	5.57	50b
Screen Analysis (Residue 325 Mesh)	0.3% Max.	50f
Color, Min.	60	50i

Chemical Analysis

		<u>Method</u>
Zinc Oxide, ZnO, Min.	98.5 %	50A
Lead, Pb, Max.	0.34%	50K

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The Sherwin-Williams Co.

E. R. L.

JUN 16 1970

INTER OFFICE LETTER FROM Research Center - Chicago OFFICE Chicago Inorganics DEPT.

FOR	OFFICE	DATE	June 10, 1970
ALL SHERWIN-WILLIAMS CHEMICALS		SUBJECT	Arsenic Acid Specifications
SALES MANAGERS			
IN REPLY TO LETTER OF		DICTATED BY	

We are enclosing herewith a new set of Specification sheets and Typical Properties sheets for Arsenic Acid, BD-1083 and BD-1124, replacing serial numbers 83 and 84 with serial numbers 92 and 93, respectively.

Please discard the old sheets.

K. H. Wilkinson
Chicago Inorganics Laboratory

Carl T. Schrock

Carl T. Schrock: fl

cc: LAM GLT CAC CLI ACA OHC, Jr.
CKE ERL

0007-PMC-000000680

N15564.01

SHERWIN-WILLIAMS

PIGMENT

COLOR &

CHEMICAL

DEPARTMENT

SPECIFICATION

AUXILIARIES DEPARTMENT
CHICAGO 28, ILLINOIS

ARSENIC ACID
 H_3AsO_4
BD-1124
Regular Grade

Serial No. 93
Issued June 1, 1970

Miscellaneous Properties

		<u>Method</u>
Appearance	Clear, with Light Yellowish to Light Green Color	70a
Specific Gravity	1.90 - 2.00	70b
Pounds Per Gallon	15.85 - 16.70	70c

Chemical Analysis

Arsenic Acid, H_3AsO_4	74.86 - 79.16%	70A
Arsenic Acid Calc. to As_2O_5	60.6 - 64.1%	70A
Arsenious Oxide, As_2O_3 , Max.	0.75%	70B
Nitric Acid, HNO_3	None	70C

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N15564.02



SPECIFICATION

AUXILIARIES DEPARTMENT
CHICAGO 28, ILLINOIS

ARSENIC ACID
 H_3AsO_4
BD-1083
Special Grade

Serial No. 92

Issued June 1, 1970

Miscellaneous Properties

		<u>Method</u>
Appearance	Liquid clear slight green or yellowish color	70a
Specific Gravity	1.95 - 2.05	70b
Pounds per Gallon	16.27 - 17.10	70c

Chemical Analysis

Arsenic Acid, H_2AsO_4	77.00 - 81.20%	70A
Calc. to As_2O_5	62.4 - 65.8%	70A
Arsenious Oxide, As_2O_3 , Max.	0.35%	70B
Nitric Acid, HNO_3	None	70C

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SHERWIN-WILLIAMS

PIGMENT,
COLOR &
CHEMICAL
DEPARTMENT

TYPICAL PROPERTIES

AUXILIARIES DEPARTMENT
CHICAGO 28, ILLINOIS

ARSENIC ACID
 H_3AsO_4
BD-1083
Special Grade

Issued June 1, 1970

Miscellaneous Properties

Appearance	Clear, slight green or yellowish color
Specific Gravity	2.00
Pounds per Gallon	16.69

Chemical Analysis

Arsenic Acid, H_3AsO_4	79.16%
Arsenic Acid Calc. to As_2O_5	64.10%
Arsenious Oxide As_2O_3	0.25%
Nitric Acid, HNO_3	None
Copper as Cu	0.001%
Lead as Pb	0.010%
Iron as Fe	0.010%
Aluminum, as Al	0.001%
Antimony as Sb	0.100%

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SHERWIN-WILLIAMS

PIGMENT,

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TYPICAL PROPERTIES

AUXILIARIES DEPARTMENT
CHICAGO 28, ILLINOIS

ARSENIC ACID
 H_3AsO_4
BD-1124
Regular Grade

Issued June 1, 1970

Miscellaneous Properties

Appearance	Clear, Light Yellowish to Light Green Color
Specific Gravity	1.95
Pounds Per Gallon	16.273

Chemical Analysis

Arsenic Acid, H_3AsO_4	77.0 %
Calc. to As_2O_5	62.35%
Arsenious Oxide, As_2O_3	0.50%
Nitric Acid, HNO_3	None
Copper as Cu	0.02%
Lead as Pb	0.08%
Iron as Fe	0.05%
Aluminum as Al	0.01%
Antimony as Sb	0.60%

0007-PMC-000000684