

Form 5500-SF Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Short Form Annual Return/Report of Small Employee Benefit Plan This form is required to be filed under sections 104 and 4065 of the Employee Retirement Income Security Act of 1974 (ERISA), and sections 6057(b) and 6058(a) of the Internal Revenue Code (the Code). ▶ Complete all entries in accordance with the instructions to the Form 5500-SF.	OMB Nos. 1210-0110 1210-0089 <div style="border: 1px solid black; padding: 5px; text-align: center; font-weight: bold; font-size: 1.2em;">2012</div> This Form is Open to Public Inspection
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Part I Annual Report Identification Information			
For calendar plan year 2012 or fiscal plan year beginning <u>10/01/2012</u> and ending <u>12/31/2012</u>			
A	This return/report is for:	☒ a single-employer plan ☐ a multiple-employer plan (not multiemployer) ☐ a one-participant plan	
B	This return/report is:	☐ the first return/report ☐ the final return/report ☐ an amended return/report ☒ a short plan year return/report (less than 12 months)	
C	Check box if filing under:	☒ Form 5558 ☐ automatic extension ☐ DFVC program ☐ special extension (enter description)	

Part II Basic Plan Information —enter all requested information			
1a	Name of plan <u>RHEIN CHEMIE CORPORATION RETIREMENT PLAN FOR UNIO EMPLOYEES AT LITTLE ROCK, AR</u>	1b	Three-digit plan number (PN) ▶ <u>002</u>
		1c	Effective date of plan <u>04/30/2005</u>
2a	Plan sponsor's name and address; include room or suite number (employer, if for a single-employer plan) <u>RHEIN CHEMIE CORPORATION</u> <u>111 PARK WEST DRIVE</u> <u>PITTSBURGH, PA 15275</u>	2b	Employer Identification Number (EIN) <u>21-0730107</u>
		2c	Sponsor's telephone number <u>412-809-2204</u>
		2d	Business code (see instructions) <u>325900</u>
3a	Plan administrator's name and address ☒ Same as Plan Sponsor Name ☐ Same as Plan Sponsor Address	3b	Administrator's EIN
		3c	Administrator's telephone number
4	If the name and/or EIN of the plan sponsor has changed since the last return/report filed for this plan, enter the name, EIN, and the plan number from the last return/report.	4b	EIN <u>51-0301280</u>
a	Sponsor's name <u>LANXESS CORPORATION</u>	4c	PN <u>002</u>
5a	Total number of participants at the beginning of the plan year	5a	<u>36</u>
b	Total number of participants at the end of the plan year	5b	<u>36</u>
c	Number of participants with account balances as of the end of the plan year (defined benefit plans do not complete this item)	5c	
6a	Were all of the plan's assets during the plan year invested in eligible assets? (See instructions.)	☒ Yes	☐ No
b	Are you claiming a waiver of the annual examination and report of an independent qualified public accountant (IQPA) under 29 CFR 2520.104-46? (See instructions on waiver eligibility and conditions.)	☒ Yes	☐ No

If you answered "No" to either line 6a or line 6b, the plan cannot use Form 5500-SF and must instead use Form 5500.

Caution: A penalty for the late or incomplete filing of this return/report will be assessed unless reasonable cause is established.

Under penalties of perjury and other penalties set forth in the instructions, I declare that I have examined this return/report, including, if applicable, a Schedule SB or Schedule MB completed and signed by an enrolled actuary, as well as the electronic version of this return/report, and to the best of my knowledge and belief, it is true, correct, and complete.

SIGN HERE	Filed with authorized/valid electronic signature.	10/09/2013	LUDOVICO MARTIN
	Signature of plan administrator	Date	Enter name of individual signing as plan administrator
SIGN HERE			
	Signature of employer/plan sponsor	Date	Enter name of individual signing as employer or plan sponsor
Preparer's name (including firm name, if applicable) and address; include room or suite number (optional)			Preparer's telephone number (optional)

Part III Financial Information

7 Plan Assets and Liabilities		(a) Beginning of Year	(b) End of Year
a Total plan assets	7a	2400894	2487268
b Total plan liabilities	7b		
c Net plan assets (subtract line 7b from line 7a)	7c	2400894	2487268
8 Income, Expenses, and Transfers for this Plan Year		(a) Amount	(b) Total
a Contributions received or receivable from:			
(1) Employers	8a(1)	82042	
(2) Participants	8a(2)		
(3) Others (including rollovers)	8a(3)		
b Other income (loss)	8b	51514	
c Total income (add lines 8a(1), 8a(2), 8a(3), and 8b)	8c		133556
d Benefits paid (including direct rollovers and insurance premiums to provide benefits)	8d	39178	
e Certain deemed and/or corrective distributions (see instructions)	8e		
f Administrative service providers (salaries, fees, commissions)	8f	7448	
g Other expenses	8g	556	
h Total expenses (add lines 8d, 8e, 8f, and 8g)	8h		47182
i Net income (loss) (subtract line 8h from line 8c)	8i		86374
j Transfers to (from) the plan (see instructions)	8j		

Part IV Plan Characteristics

9a	If the plan provides pension benefits, enter the applicable pension feature codes from the List of Plan Characteristic Codes in the instructions: 1A 1G 1I 3H
b	If the plan provides welfare benefits, enter the applicable welfare feature codes from the List of Plan Characteristic Codes in the instructions:

Part V Compliance Questions

10 During the plan year:		Yes	No	Amount
a Was there a failure to transmit to the plan any participant contributions within the time period described in 29 CFR 2510.3-102? (See instructions and DOL's Voluntary Fiduciary Correction Program)	10a		X	
b Were there any nonexempt transactions with any party-in-interest? (Do not include transactions reported on line 10a.)	10b		X	
c Was the plan covered by a fidelity bond?	10c	X		2000000
d Did the plan have a loss, whether or not reimbursed by the plan's fidelity bond, that was caused by fraud or dishonesty?	10d		X	
e Were any fees or commissions paid to any brokers, agents, or other persons by an insurance carrier, insurance service or other organization that provides some or all of the benefits under the plan? (See instructions.)	10e		X	
f Has the plan failed to provide any benefit when due under the plan?	10f		X	
g Did the plan have any participant loans? (If "Yes," enter amount as of year end.)	10g		X	
h If this is an individual account plan, was there a blackout period? (See instructions and 29 CFR 2520.101-3.)	10h			
i If 10h was answered "Yes," check the box if you either provided the required notice or one of the exceptions to providing the notice applied under 29 CFR 2520.101-3	10i			

Part VI Pension Funding Compliance

11	Is this a defined benefit plan subject to minimum funding requirements? (If "Yes," see instructions and complete Schedule SB (Form 5500) and line 11a below)	☒ Yes	☐ No
11a	Enter the amount from Schedule SB line 39	11a	0
12	Is this a defined contribution plan subject to the minimum funding requirements of section 412 of the Code or section 302 of ERISA? ..	☐ Yes	☒ No
(If "Yes," complete line 12a or lines 12b, 12c, 12d, and 12e below, as applicable.)			
a	If a waiver of the minimum funding standard for a prior year is being amortized in this plan year, see instructions, and enter the date of the letter ruling granting the waiver. Month Day Year		
If you completed line 12a, complete lines 3, 9, and 10 of Schedule MB (Form 5500), and skip to line 13.			
b	Enter the minimum required contribution for this plan year	12b	

c Enter the amount contributed by the employer to the plan for this plan year.....	12c	
d Subtract the amount in line 12c from the amount in line 12b. Enter the result (enter a minus sign to the left of a negative amount)	12d	
e Will the minimum funding amount reported on line 12d be met by the funding deadline?.....	☐ Yes ☐ No ☐ N/A	

Part VII Plan Terminations and Transfers of Assets

13a Has a resolution to terminate the plan been adopted in any plan year?	☐ Yes ☒ No
If "Yes," enter the amount of any plan assets that reverted to the employer this year	13a
b Were all the plan assets distributed to participants or beneficiaries, transferred to another plan, or brought under the control of the PBGC?.....	☐ Yes ☒ No
c If during this plan year, any assets or liabilities were transferred from this plan to another plan(s), identify the plan(s) to which assets or liabilities were transferred. (See instructions.)	
13c(1) Name of plan(s):	13c(2) EIN(s)

Part VIII Trust Information (optional)

14a Name of trust	14b Trust's EIN

SCHEDULE SB (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Single-Employer Defined Benefit Plan Actuarial Information This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA) and section 6059 of the Internal Revenue Code (the Code). ▶ File as an attachment to Form 5500 or 5500-SF.	OMB No. 1210-0110 2012 This Form is Open to Public Inspection
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For calendar plan year 2012 or fiscal plan year beginning 10/01/2012 and ending 12/31/2012

▶ **Round off amounts to nearest dollar.**

▶ **Caution:** A penalty of \$1,000 will be assessed for late filing of this report unless reasonable cause is established.

A Name of plan <u>RHEIN CHEMIE CORPORATION RETIREMENT PLAN FOR UNIO EMPLOYEES AT LITTLE ROCK, AR</u>	B Three-digit plan number (PN) ▶ <u>002</u>
C Plan sponsor's name as shown on line 2a of Form 5500 or 5500-SF <u>RHEIN CHEMIE CORPORATION</u>	D Employer Identification Number (EIN) <u>21-0730107</u>
E Type of plan: ☒ Single ☐ Multiple-A ☐ Multiple-B	F Prior year plan size: ☐ 100 or fewer ☒ 101-500 ☐ More than 500

Part I	Basic Information
1 Enter the valuation date: Month <u>10</u> Day <u>01</u> Year <u>2012</u>	
2 Assets:	
a Market value	2a <u>2394756</u>
b Actuarial value	2b <u>2454341</u>
3 Funding target/participant count breakdown:	
a For retired participants and beneficiaries receiving payment.....	3a <u>12</u> <u>1766896</u>
b For terminated vested participants.....	3b <u>7</u> <u>443668</u>
c For active participants:	
(1) Non-vested benefits.....	3c(1) <u>79898</u>
(2) Vested benefits.....	3c(2) <u>1330221</u>
(3) Total active	3c(3) <u>17</u> <u>1410119</u>
d Total	3d <u>36</u> <u>3620683</u>
4 If the plan is in at-risk status, check the box and complete lines (a) and (b)	☐
a Funding target disregarding prescribed at-risk assumptions	4a
b Funding target reflecting at-risk assumptions, but disregarding transition rule for plans that have been in at-risk status for fewer than five consecutive years and disregarding loading factor	4b
5 Effective interest rate	5 <u>7.02 %</u>
6 Target normal cost.....	6 <u>3750</u>

Statement by Enrolled Actuary

To the best of my knowledge, the information supplied in this schedule and accompanying schedules, statements and attachments, if any, is complete and accurate. Each prescribed assumption was applied in accordance with applicable law and regulations. In my opinion, each other assumption is reasonable (taking into account the experience of the plan and reasonable expectations) and such other assumptions, in combination, offer my best estimate of anticipated experience under the plan.

SIGN HERE		<u>10/02/2013</u>
	Signature of actuary	Date
<u>SANNIDH S. AMBERKAR</u>		<u>11-07276</u>
	Type or print name of actuary	Most recent enrollment number
<u>HEWITT ASSOCIATES LLC</u>		<u>847-295-5000</u>
	Firm name	Telephone number (including area code)
<u>4 OVERLOOK POINT</u> <u>LINCOLNSHIRE, IL 60069</u>		
	Address of the firm	

If the actuary has not fully reflected any regulation or ruling promulgated under the statute in completing this schedule, check the box and see instructions ☐

For Paperwork Reduction Act Notice and OMB Control Numbers, see the instructions for Form 5500 or 5500-SF.

Schedule SB (Form 5500) 2012
v. 120126

Part II Beginning of Year Carryover Prefunding Balances		(a) Carryover balance	(b) Prefunding balance
7	Balance at beginning of prior year after applicable adjustments (line 13 from prior year)	0	0
8	Portion elected for use to offset prior year's funding requirement (line 35 from prior year)	0	0
9	Amount remaining (line 7 minus line 8)	0	0
10	Interest on line 9 using prior year's actual return of <u>7.84</u> %		
11	Prior year's excess contributions to be added to prefunding balance:		
	a Present value of excess contributions (line 38a from prior year)		0
	b Interest on (a) using prior year's effective interest rate of <u>5.74</u> % except as otherwise provided (see instructions)		0
	c Total available at beginning of current plan year to add to prefunding balance		0
	d Portion of (c) to be added to prefunding balance		0
12	Other reductions in balances due to elections or deemed elections	0	0
13	Balance at beginning of current year (line 9 + line 10 + line 11d – line 12)	0	0

Part III Funding Percentages			
14	Funding target attainment percentage	14	67.78 %
15	Adjusted funding target attainment percentage	15	67.78 %
16	Prior year's funding percentage for purposes of determining whether carryover/prefunding balances may be used to reduce current year's funding requirement	16	52.11 %
17	If the current value of the assets of the plan is less than 70 percent of the funding target, enter such percentage	17	67.78 %

Part IV Contributions and Liquidity Shortfalls					
18 Contributions made to the plan for the plan year by employer(s) and employees:					
(a) Date (MM-DD-YYYY)	(b) Amount paid by employer(s)	(c) Amount paid by employees	(a) Date (MM-DD-YYYY)	(b) Amount paid by employer(s)	(c) Amount paid by employees
01/15/2013	28557				
07/15/2013	53485				
			Totals ►	18(b)	82042
				18(c)	0

19	Discounted employer contributions – see instructions for small plan with a valuation date after the beginning of the year:	
	a Contributions allocated toward unpaid minimum required contributions from prior years.	19a 0
	b Contributions made to avoid restrictions adjusted to valuation date	19b 0
	c Contributions allocated toward minimum required contribution for current year adjusted to valuation date	19c 77838
20	Quarterly contributions and liquidity shortfalls:	
	a Did the plan have a "funding shortfall" for the prior year?	☒ Yes ☐ No
	b If line 20a is "Yes," were required quarterly installments for the current year made in a timely manner?	☐ Yes ☒ No
	c If line 20a is "Yes," see instructions and complete the following table as applicable:	

Liquidity shortfall as of end of quarter of this plan year			
(1) 1st	(2) 2nd	(3) 3rd	(4) 4th
0		0	0

Part V Assumptions Used to Determine Funding Target and Target Normal Cost

21 Discount rate:				
a Segment rates:	1st segment: 5.54%	2nd segment: 6.85%	3rd segment: 7.52 %	☐ N/A, full yield curve used
b Applicable month (enter code).....				21b 4
22 Weighted average retirement age				22 61
23 Mortality table(s) (see instructions) ☐ Prescribed - combined ☒ Prescribed - separate ☐ Substitute				

Part VI Miscellaneous Items

24 Has a change been made in the non-prescribed actuarial assumptions for the current plan year? If "Yes," see instructions regarding required attachment.	☒ Yes ☐ No
25 Has a method change been made for the current plan year? If "Yes," see instructions regarding required attachment.	☐ Yes ☒ No
26 Is the plan required to provide a Schedule of Active Participants? If "Yes," see instructions regarding required attachment.....	☒ Yes ☐ No
27 If the plan is subject to alternative funding rules, enter applicable code and see instructions regarding attachment.....	27

Part VII Reconciliation of Unpaid Minimum Required Contributions For Prior Years

28 Unpaid minimum required contributions for all prior years	28	0
29 Discounted employer contributions allocated toward unpaid minimum required contributions from prior years (line 19a).....	29	0
30 Remaining amount of unpaid minimum required contributions (line 28 minus line 29)	30	0

Part VIII Minimum Required Contribution For Current Year

31 Target normal cost and excess assets (see instructions):			
a Target normal cost (line 6)	31a	3750	
b Excess assets, if applicable, but not greater than line 31a	31b	0	
32 Amortization installments:	Outstanding Balance	Installment	
a Net shortfall amortization installment	1166342	73428	
b Waiver amortization installment	0	0	
33 If a waiver has been approved for this plan year, enter the date of the ruling letter granting the approval (Month _____ Day _____ Year _____) and the waived amount	33		
34 Total funding requirement before reflecting carryover/prefunding balances (lines 31a - 31b + 32a + 32b - 33)...	34	77178	
	Carryover balance	Prefunding balance	Total balance
35 Balances elected for use to offset funding requirement.....	0	0	0
36 Additional cash requirement (line 34 minus line 35)	36	77178	
37 Contributions allocated toward minimum required contribution for current year adjusted to valuation date (line 19c)	37	77838	
38 Present value of excess contributions for current year (see instructions)			
a Total (excess, if any, of line 37 over line 36)	38a	660	
b Portion included in line 38a attributable to use of prefunding and funding standard carryover balances	38b	0	
39 Unpaid minimum required contribution for current year (excess, if any, of line 36 over line 37)	39	0	
40 Unpaid minimum required contributions for all years.....	40	0	

Part IX Pension Funding Relief Under Pension Relief Act of 2010 (See Instructions)

41 If an election was made to use PRA 2010 funding relief for this plan:			
a Schedule elected	☐ 2 plus 7 years ☐ 15 years		
b Eligible plan year(s) for which the election in line 41a was made	☐ 2008 ☐ 2009 ☐ 2010 ☐ 2011		
42 Amount of acceleration adjustment	42		
43 Excess installment acceleration amount to be carried over to future plan years	43		

SCHEDULE SB (Form 5500) <small>Department of the Treasury Internal Revenue Service</small> <small>Department of Labor Employee Benefits Security Administration</small> <small>Pension Benefit Guaranty Corporation</small>	Single-Employer Defined Benefit Plan Actuarial Information This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA) and section 6059 of the Internal Revenue Code (the Code). ► File as an attachment to Form 5500 or 5500-SF.	OMB No. 1210-0110 2012 This Form is Open to Public Inspection
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For calendar plan year 2012 or fiscal plan year beginning 10/01/2012 and ending 12/31/2012

► **Round off amounts to nearest dollar.**

► **Caution:** A penalty of \$1,000 will be assessed for late filing of this report unless reasonable cause is established.

A Name of plan <u>Rhein Chemie Corp Ret Plan for Un Empl at Little Rock AR</u>	B Three-digit plan number (PN) ► <u>002</u>
C Plan sponsor's name as shown on line 2a of Form 5500 or 5500-SF <u>Rhein Chemie Corporation</u>	D Employer Identification Number (EIN) <u>21-0730107</u>
E Type of plan: ☒ Single ☐ Multiple-A ☐ Multiple-B ☐ Other	
F Prior year plan size: ☐ 100 or fewer ☒ 101-500 ☐ More than 500	

Part I Basic Information			
1 Enter the valuation date: Month <u>10</u> Day <u>1</u> Year <u>2012</u>			
2 Assets:			
a Market value	2a		2,394,756
b Actuarial value	2b		2,454,341
3 Funding target/participant count breakdown:		(1) Number of participants	(2) Funding Target
a For retired participants and beneficiaries receiving payment	3a	12	1,766,896
b For terminated vested participants	3b	7	443,668
c For active participants:			
(1) Non-vested benefits	3c(1)		79,898
(2) Vested benefits	3c(2)		1,330,221
(3) Total active	3c(3)	17	1,410,119
d Total	3d	36	3,620,683
4 If the plan is in at-risk status, check the box and complete lines (a) and (b)..... ☐			
a Funding target disregarding prescribed at-risk assumptions	4a		
b Funding target reflecting at-risk assumptions, but disregarding transition rule for plans that have been in at-risk status for fewer than five consecutive years and disregarding loading factor	4b		
5 Effective interest rate	5		7.02 %
6 Target normal cost	6		3,750

Statement by Enrolled Actuary

To the best of my knowledge, the information supplied in this schedule and accompanying schedules, statements and attachments, if any, is complete and accurate. Each prescribed assumption was applied in accordance with applicable law and regulations. In my opinion, each other assumption is reasonable (taking into account the experience of the plan and reasonable expectations) and such other assumptions, in combination, offer my best estimate of anticipated experience under the plan.

SIGN HERE	<u>Sannidh Amberkar, S.A.</u> Signature of actuary	<u>10/02/2013</u> Date
	<u>Sannidh S. Amberkar</u> Type or print name of actuary	<u>11-07276</u> Most recent enrollment number
	<u>Hewitt Associates LLC</u> Firm name	<u>(847) 295-5000</u> Telephone number (including area code)
	<u>4 Overlook Point</u> <u>Lincolnshire</u> Address of the firm	
	<u>IL 60069</u>	

If the actuary has not fully reflected any regulation or ruling promulgated under the statute in completing this schedule, check the box and see instructions ☐

Part II Beginning of Year Carryover Prefunding Balances

	(a) Carryover balance	(b) Prefunding balance
7 Balance at beginning of prior year after applicable adjustments (line 13 from prior year)	0	0
8 Portion elected for use to offset prior year's funding requirement (line 35 from prior year)	0	0
9 Amount remaining (line 7 minus line 8)	0	0
10 Interest on line 9 using prior year's actual return of <u>7.84</u> %		
11 Prior year's excess contributions to be added to prefunding balance:		
a Present value of excess contributions (line 38a from prior year)		0
b Interest on (a) using prior year's effective interest rate of <u>5.74</u> % except as otherwise provided (see instructions)		0
c Total available at beginning of current plan year to add to prefunding balance		0
d Portion of (c) to be added to prefunding balance		0
12 Other reductions in balances due to elections or deemed elections	0	0
13 Balance at beginning of current year (line 9 + line 10 + line 11d – line 12)	0	0

Part III Funding Percentages

14 Funding target attainment percentage	14	67.78 %
15 Adjusted funding target attainment percentage	15	67.78 %
16 Prior year's funding percentage for purposes of determining whether carryover/prefunding balances may be used to reduce current year's funding requirement	16	52.11 %
17 If the current value of the assets of the plan is less than 70 percent of the funding target, enter such percentage	17	67.78 %

Part IV Contributions and Liquidity Shortfalls

(a) Date (MM-DD-YYYY)	(b) Amount paid by employer(s)	(c) Amount paid by employees	(a) Date (MM-DD-YYYY)	(b) Amount paid by employer(s)	(c) Amount paid by employees
01/15/2013	28,557				
07/15/2013	53,485				
Totals ▶			18(b)	82,042	18(c) 0

19 Discounted employer contributions – see instructions for small plan with a valuation date after the beginning of the year:

a Contributions allocated toward unpaid minimum required contributions from prior years	19a	0
b Contributions made to avoid restrictions adjusted to valuation date	19b	0
c Contributions allocated toward minimum required contribution for current year adjusted to valuation date	19c	77,838

20 Quarterly contributions and liquidity shortfalls:

a Did the plan have a "funding shortfall" for the prior year? ☒ Yes ☐ No

b If line 20a is "Yes," were required quarterly installments for the current year made in a timely manner? ☐ Yes ☒ No

c If line 20a is "Yes," see instructions and complete the following table as applicable:

Liquidity shortfall as of end of quarter of this plan year			
(1) 1st	(2) 2nd	(3) 3rd	(4) 4th
0	0	0	0

Part V Assumptions Used to Determine Funding Target and Target Normal Cost

21 Discount rate:				
a Segment rates:				
1st segment: 5.54 %	2nd segment: 6.85 %	3rd segment: 7.52 %	☐ N/A, full yield curve used	
b Applicable month (enter code).....			21b	4
22 Weighted average retirement age			22	61
23 Mortality table(s) (see instructions) ☐ Prescribed - combined ☒ Prescribed - separate ☐ Substitute				

Part VI Miscellaneous Items

24 Has a change been made in the non-prescribed actuarial assumptions for the current plan year? If "Yes," see instructions regarding required attachment.		☒ Yes ☐ No
25 Has a method change been made for the current plan year? If "Yes," see instructions regarding required attachment.		☐ Yes ☒ No
26 Is the plan required to provide a Schedule of Active Participants? If "Yes," see instructions regarding required attachment.		☒ Yes ☐ No
27 If the plan is subject to alternative funding rules, enter applicable code and see instructions regarding attachment	27	

Part VII Reconciliation of Unpaid Minimum Required Contributions For Prior Years

28 Unpaid minimum required contributions for all prior years	28	0
29 Discounted employer contributions allocated toward unpaid minimum required contributions from prior years (line 19a).....	29	0
30 Remaining amount of unpaid minimum required contributions (line 28 minus line 29)	30	0

Part VIII Minimum Required Contribution For Current Year

31 Target normal cost and excess assets (see instructions):			
a Target normal cost (line 6).....		31a	3,750
b Excess assets, if applicable, but not greater than line 31a		31b	0
32 Amortization installments:		Outstanding Balance	Installment
a Net shortfall amortization installment.....		1,166,342	73,428
b Waiver amortization installment		0	0
33 If a waiver has been approved for this plan year, enter the date of the ruling letter granting the approval (Month _____ Day _____ Year _____) and the waived amount		33	
34 Total funding requirement before reflecting carryover/prefunding balances (lines 31a - 31b + 32a + 32b - 33) ..		34	77,178
	Carryover balance	Prefunding balance	Total balance
35 Balances elected for use to offset funding requirement.....	0	0	0
36 Additional cash requirement (line 34 minus line 35).....		36	77,178
37 Contributions allocated toward minimum required contribution for current year adjusted to valuation date (line 19c).....		37	77,838
38 Present value of excess contributions for current year (see instructions)			
a Total (excess, if any, of line 37 over line 36)		38a	660
b Portion included in line 38a attributable to use of prefunding and funding standard carryover balances		38b	0
39 Unpaid minimum required contribution for current year (excess, if any, of line 36 over line 37)		39	0
40 Unpaid minimum required contributions for all years		40	0

Part IX Pension Funding Relief Under Pension Relief Act of 2010 (See Instructions)

41 If an election was made to use PRA 2010 funding relief for this plan:			
a Schedule elected		☐ 2 plus 7 years ☐ 15 years	
b Eligible plan year(s) for which the election in line 41a was made		☐ 2008 ☐ 2009 ☐ 2010 ☐ 2011	
42 Amount of acceleration adjustment	42		
43 Excess installment acceleration amount to be carried over to future plan years	43		

Schedule SB Attachment (Form 5500)—2012 Plan Year
Rhein Chemie Corporation Retirement Plan for Union Employees at Little
Rock, AR
EIN: 21-0730107 PN: 002

Schedule SB, line 15—Reconciliation of Differences Between Valuation Results and
Amounts Used to Calculate AFTAP

The AFTAP for the Plan was originally issued on June 28, 2013. The AFTAP was revised and reissued on September 26, 2013 to reflect the change in VPA due to a revision in the market value of assets used in the calculation. The inputs used in each certification are outlined below:

	Certification Date	
	6/28/2013	9/26/2013
Funding Target	\$ 3,620,683	\$ 3,620,683
Value of Plan Assets	\$ 2,439,060	\$ 2,454,341
Funding Standard Carryover Balance	\$ 0	\$ 0
Prefunding Balance	\$ 0	\$ 0
Annuities Purchased for NHCE's	\$ 0	\$ 0
Security Posted	\$ 0	\$ 0
Certified AFTAP	67.36%	67.78%

Schedule SB Attachment (Form 5500)—2012 Plan Year
Rhein Chemie Corporation Retirement Plan for Union Employees at Little
Rock, AR
EIN: 21-0730107 PN: 002

Schedule SB, line 19—Discounted Employer Contributions

Year applied for contributions: 2012

Date	Amount	Interest Rate	Days to Discount to 10/1/2012	Interest Rate	Days to Discount to 10/1/2012	Interest Adjusted Contribution
January 15, 2013	\$ 28,557	7.02%	106			\$ 28,000
July 15, 2013	\$ 40,904	7.02%	106	12.02%	181	\$ 37,911
July 15, 2013	\$ 12,581	7.02%	287			\$ 11,927
Total Contribution	\$ 82,042					\$ 77,838

Schedule SB Attachment (Form 5500)—2012 Plan Year
Rhein Chemie Corporation Retirement Plan for Union Employees at Little
Rock, AR
EIN: 21-0730107 PN: 002

Schedule SB, line 22—Description of Weighted Average Retirement Age

The assumed retirement age is the earlier of Age 60 with 30 Years of Service or Age 62.

Employees projected to have at least 30 Years of Service by Age 60: 11

Employees projected to have less than 30 Years of Service by Age 60: 4

1 Employee is currently Age 68

1 Employee is currently Age 61 with 30 Years of Service

$$11/17 * 60 = 38.82$$

$$4/17 * 62 = 14.59$$

$$1/17 * 68 = 4.00$$

$$1/17 * 61 = 3.59$$

$$38.82 + 14.59 + 4.00 + 3.59 = 61.00$$

Schedule SB Attachment (Form 5500)—2012 Plan Year
Rhein Chemie Corporation Retirement Plan for Union Employees at Little
Rock, AR
EIN: 21-0730107 PN: 002

Schedule SB, Part V—Statement of Actuarial Assumptions/Methods
For ERISA Requirements

Interest Rates for Minimum Funding Purposes	Based on segment rates with a four-month lookback (as of June 2012), each adjusted as needed to fall within the 25-year average interest rate corridor under MAP-21
1st Segment Rate	5.54%
2nd Segment Rate	6.85%
3rd Segment Rate	7.52%
Interest Rates for Maximum Tax Purposes	Based on segment rates with a four-month lookback (as of June 2012), without regard to the MAP-21 interest rate corridor
1st Segment Rate	1.84%
2nd Segment Rate	4.79%
3rd Segment Rate	5.90%
Retirement Age	
Active Participants	See Table 1
Terminated Vested Participants	Age 62
Mortality Rates	
Healthy	Generational mortality table for annuitants and non-annuitants per §1.430(h)(3)-1(d)
Disabled	Revenue Ruling 96-7 mortality table for disability after December 31, 1994
Withdrawal Rates	See Table 2
Disability Rates	See Table 3
Decrement Timing	Middle of year decrements, with 100% retirement occurring at beginning of year
Surviving Spouse Benefit	It is assumed that 80% of males and 80% of females have an eligible spouse, and that males are four years older than their spouses.
Benefit Limits	Projected benefits are limited by the current IRC section 415 maximum benefit of \$200,000.

Schedule SB Attachment (Form 5500)—2012 Plan Year
Rhein Chemie Corporation Retirement Plan for Union Employees at Little
Rock, AR
EIN: 21-0730107 PN: 002

For ERISA Requirements

Valuation of Plan Assets

Smoothed fair market value of assets over the current and prior two years, adjusted for contributions, benefit payments, administrative expenses, and expected earnings. The average value of assets calculated in this manner is further limited to not less than 90% nor more than 110% of fair market value.

A characteristic of this method is that the expected distribution of the value of plan assets is skewed toward understatement relative to the corresponding market values for expected long-term rates of return in excess of the third segment rate under IRC section 430(h)(2)(C)(iii).

Expected Return on Assets

2010 Plan Year

7.00%, limited to 6.68%

2011 Plan Year

7.00%, limited to 6.34%

Trust Expenses Included in Target Normal Cost

\$15,000 Annually, \$3,750 for the 2012 partial plan year (October 1, 2012 – December 31, 2012)

Optional Payment Form Election Percentage

The liabilities reflect the following optional form election percentages:

50% Joint & Survivor

30%

100% Joint & Survivor

20%

5-year Certain & Life

50%

Year of Service Subsequent to the Valuation Date

Each participant is assumed to accrue one year of vesting service for each future year unless information provided by the plan sponsor indicates otherwise

Retirement Benefits

If a retiree is older than his spouse and elects to commence a Pop-Up benefit, it is assumed that the participant will die before his spouse.

Actuarial Method

Standard unit credit cost method

Valuation Date

October 1, 2012

Schedule SB Attachment (Form 5500)—2012 Plan Year
Rhein Chemie Corporation Retirement Plan for Union Employees at Little
Rock, AR
EIN: 21-0730107 PN: 002

For ERISA Requirements

Changes in prescribed assumptions since prior year:

- A change in the interest rate assumption from segment rates with a four-month look-back (2.27%, 5.43%, and 6.34%) as of June 2011 to segment rates with a four-month look-back (1.84%, 4.79%, 5.90%) as of June 2012 each adjusted as needed to fall within the 25-year average interest rate corridor under MAP 21 (5.54%, 6.85%, and 7.52%).
- A change in the mortality assumption from the 2011 IRS gender distinct mortality table to the 2008 PY IRC 430 Generational (Scale AA) for annuitants and non-annuitants per §1.430(h)(3)-1(e).
- Actuarial Assumptions and Methods

Schedule SB Attachment (Form 5500)—2012 Plan Year
Rhein Chemie Corporation Retirement Plan for Union Employees at Little
Rock, AR
EIN: 21-0730107 PN: 002

Table 1

Retirement Rates

Age	Years of Service	
	0-29	30+
60	0.00%	100.00%
61	0.00%	100.00%
62+	100.00%	100.00%

Schedule SB Attachment (Form 5500)—2012 Plan Year
Rhein Chemie Corporation Retirement Plan for Union Employees at Little
Rock, AR
EIN: 21-0730107 PN: 002

Table 2

Withdrawal Rates

Service	Rate
0	10.00%
1	10.00%
2	8.00%
3	8.00%
4	6.00%
5	6.00%
6	4.00%
7	4.00%
8	2.00%
9	2.00%
10+	0.00%

Schedule SB Attachment (Form 5500)—2012 Plan Year
Rhein Chemie Corporation Retirement Plan for Union Employees at Little
Rock, AR
EIN: 21-0730107 PN: 002

Table 3
Disability Rates

Age	Rate	Age	Rate
16	0.03%	46	0.11%
17	0.03%	47	0.12%
18	0.03%	48	0.14%
19	0.03%	49	0.16%
20	0.03%	50	0.18%
21	0.03%	51	0.20%
22	0.03%	52	0.23%
23	0.03%	53	0.26%
24	0.03%	54	0.30%
25	0.03%	55	0.36%
26	0.04%	56	0.42%
27	0.04%	57	0.50%
28	0.04%	58	0.59%
29	0.04%	59	0.69%
30	0.04%	60	0.90%
31	0.04%	61	1.16%
32	0.04%	62	1.46%
33	0.05%	63	1.81%
34	0.05%	64	2.22%
35	0.05%	65+	0.00%
36	0.06%		
37	0.06%		
38	0.06%		
39	0.06%		
40	0.07%		
41	0.07%		
42	0.08%		
43	0.08%		
44	0.09%		
45	0.10%		

Schedule SB Attachment (Form 5500)—2012 Plan Year
Rhein Chemie Corporation Retirement Plan for Union Employees at Little
Rock, AR
EIN: 21-0730107 PN: 002

Schedule SB, Part V—Summary of Plan Provisions

History of Plan

The Tire Curing Bladders, LLC ("TCB LLC") entered into an asset purchase agreement with Pirelli Tire, LLC effective April 30, 2005. Under such agreement TCB LLC has established this plan solely for the participants of the Pirelli Tire Retirement Pension Plan (the "Pirelli Tire Plan") as of August 15, 2004 that were subject to the Little Rock collective bargaining agreement of which such employees continue to remain employed with the Employer on or after April 30, 2005. LANXESS U.S. acquired TCB LLC in 2012 and now maintains the plan.

Participation

Employees who were part of Pirelli Tire Retirement Pension Plan as of August 15, 2004 and continued to be employed on or after April 30, 2005

Plan Freeze

On August 15, 2004, service was frozen for all active participants. Nonvested participants were fully vested in their benefit upon termination.

Normal Retirement

Eligibility

Age 65 and 5 years **of service**

Monthly Benefit

A+B, subject to a minimum monthly benefit of \$41.00 multiplied by the participant's credit service:

A: 0.5% of final compensation (monthly) prior to the participant's 5th anniversary date, multiplied by his full years of past service to said anniversary date

B: 0.5% of final compensation (monthly) up to \$3,000 plus 1% of final compensation over \$3,000, multiplied by his credit service between said anniversary date and his normal retirement date

Early Retirement

Eligibility

Age 55 and 10 years of service

Benefit

Accrued normal retirement benefit reduced 4/10% for each month that the commencement date precedes the month in which the participant attains age

Schedule SB Attachment (Form 5500)—2012 Plan Year
Rhein Chemie Corporation Retirement Plan for Union Employees at Little
Rock, AR
EIN: 21-0730107 PN: 002

Unreduced Early Retirement

Eligibility

Age 62 and 10 years of service, or
Complete 30 years of service

Monthly Benefit

Unreduced normal retirement benefit

Special Early Retirement

Eligibility

Age 55 and 30 years of service

Monthly Benefit

Pre-62: \$50 multiplied by credit service plus \$10 multiplied by credit service after age 55
Post-62: Unreduced normal retirement benefit

Late Retirement

Benefit

Accrued normal retirement benefit, including accruals beyond age 65

Disability Retirement

Eligibility

10 years of service and total disability

Benefit

Unreduced accrued benefit at time of disability, payable in the sixth month following the disability

Deferred Vested Retirement

Eligibility

5 years of service.

Benefit

Accrued benefit at termination if benefits deferred to normal retirement age;
Actuarial equivalent of accrued benefit at termination if commencing before normal retirement age

Schedule SB Attachment (Form 5500)—2012 Plan Year
Rhein Chemie Corporation Retirement Plan for Union Employees at Little
Rock, AR
EIN: 21-0730107 PN: 002

Preretirement Death Benefit

Eligibility

5 years of service and married for at least one year

Benefit

For active participants: Qualified Joint & Survivor Annuity (QJSA) deferred to participant's earliest retirement age, reduced based on actuarial equivalence if commencing immediately

For terminated vested participants: Deferred vested benefit payable as a QJSA at the earliest retirement date, reduced by 0.5% for each year of coverage

Supplemental Postretirement Death Benefit

Eligibility

Retired from active status, or retired from terminated vested status after age 60, and married for at least one year

Benefit

Lump sum of \$4,000

Transition Survivor Income Benefit

Eligibility

30 days of credit service at death

Monthly Benefit

\$500 less any qualified preretirement survivor annuity payable, subject to a maximum of \$300, payable until survivor reaches age 62 for at most two years.

Bridge Survivor Benefit

Eligibility

Age 45 at death

Monthly Benefit

\$500 less any qualified preretirement survivor annuity payable, subject to a maximum of \$300, payable two years after death and until survivor reaches age 62 or remarries.

Special Medicare Benefit

Eligibility

Age 65

Schedule SB Attachment (Form 5500)—2012 Plan Year
Rhein Chemie Corporation Retirement Plan for Union Employees at Little
Rock, AR
EIN: 21-0730107 PN: 002

Monthly Benefit

\$50, subject to maximum of the standard monthly premium for Medicare Part B coverage

Form of Benefit Payment

Normal

Single participant: Five-year certain and life annuity

Married participant: 50% joint & survivor annuity

Optional

10 and 15 year certain and life annuity; 50% and 100% joint & survivor annuity with Pop-up; cash refund annuity

Changes Since the Prior Year

The funding and plan reporting valuations do not reflect any plan changes.

Other Information to Fully and Fairly Disclose the Actuarial Position of the Plan

Due to software limitations with the electronic filing process, information filed electronically cannot be controlled by the Enrolled Actuary. The values on the signed Schedule SB will govern to the extent there are any differences in the entries filed electronically and the actual data contained on the signed Schedule SB.

There has been a change in the enrolled actuary for the plan since the 2011 plan year. LANXESS Corporation acquired the RCC Plan in 2012 through a business acquisition. Hewitt Associates, operating as Aon Hewitt, has been providing actuarial services for the LANXESS' plans and thus was employed to provide services related to the RCC Plan for plan years 2012 and on. As a result, the enrolled actuary has changed.

LANXESS Corporation has changed the RCC Plan to calendar year. Therefore, 2012 plan year for the RCC Plan is a short plan year from October 1, 2012 to December 31, 2012.

Schedule SB Attachment (Form 5500)—2012 Plan Year
Rhein Chemie Corporation Retirement Plan for Union Employees at Little
Rock, AR
EIN: 21-0730107 PN: 002

Schedule SB, line 24—Change in Actuarial Assumptions

The funding valuation reflects the following non-prescribed assumption changes:

- Optional Payment Form Election Percentage has been updated to:
 - 5-year Certain and Life: 50%
 - 50% Joint and Survivor: 30%
 - 100% Joint and Survivor: 20%
- A change in the assumed expenses payable from the trust from \$0 to \$15,000 annually (\$3,750 for the 2012 partial plan year from October 1, 2012 – December 31, 2012).

The assumption changes above were made to better reflect the anticipated plan experience and reduced the funding shortfall by less than 5% of the Funding Target before the change. As such, approval of the Commissioner is not required.

Schedule SB Attachment (Form 5500)—2012 Plan Year
Rhein Chemie Corporation Retirement Plan for Union Employees at Little
Rock, AR
EIN: 21-0730107 PN: 002

Schedule SB, line 26—Schedule of Active Participant Data as of October 1, 2012
Number of Participants and Credited Service

Attained Age	Years of Credited Service									
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40+
<25										
25-29										
30-34										
35-39										
40-44		1								
45-49			3			1				
50-54					1		2			
55-59			1				5	1		
60-64							1			
65-69							1			
70+										

N-17

Schedule SB Attachment (Form 5500)—2012 Plan Year
 Rhein Chemie Corporation Retirement Plan for Union Employees at Little
 Rock, AR

EIN: 21-0730107 PN: 002

Schedule SB, line 32—Schedule of Amortization Bases

Type Of Base	Present Value of Installments	Valuation Date Established	Remaining Years in Amortization Period	Amortization Amount
Shortfall	\$727,040	October 1, 2009	4	\$196,714
Shortfall	\$135,701	October 1, 2010	5	\$30,143
Shortfall	\$701,438	October 1, 2011	6	\$134,377
Shortfall	<u>(\$397,837)</u>	October 1, 2012	7	<u>(\$67,523)</u>
Total	\$1,166,342			\$293,711

The Installment for the period October 1, 2012 to December 31, 2012 will be \$293,711 / 4 = \$73,428.

Schedule SB Attachment (Form 5500)—2012 Plan Year
Rhein Chemie Corporation Retirement Plan for Union Employees at Little
Rock, AR
EIN: 21-0730107 PN: 002

Schedule SB, line 19—Discounted Employer Contributions

Year applied for contributions: 2012

Date	Amount	Interest Rate	Days to Discount to 10/1/2012	Interest Rate	Days to Discount to 10/1/2012	Interest Adjusted Contribution
January 15, 2013	\$ 28,557	7.02%	106			\$ 28,000
July 15, 2013	\$ 40,904	7.02%	106	12.02%	181	\$ 37,911
July 15, 2013	\$ 12,581	7.02%	287			\$ 11,927
Total Contribution	\$ 82,042					\$ 77,838

Schedule SB Attachment (Form 5500)—2012 Plan Year
Rhein Chemie Corporation Retirement Plan for Union Employees at Little
Rock, AR
EIN: 21-0730107 PN: 002

Schedule SB, line 22—Description of Weighted Average Retirement Age

The assumed retirement age is the earlier of Age 60 with 30 Years of Service or Age 62.

Employees projected to have at least 30 Years of Service by Age 60: 11

Employees projected to have less than 30 Years of Service by Age 60: 4

1 Employee is currently Age 68

1 Employee is currently Age 61 with 30 Years of Service

$$11/17 * 60 = 38.82$$

$$4/17 * 62 = 14.59$$

$$1/17 * 68 = 4.00$$

$$1/17 * 61 = 3.59$$

$$38.82 + 14.59 + 4.00 + 3.59 = 61.00$$

Schedule SB Attachment (Form 5500)—2012 Plan Year
Rhein Chemie Corporation Retirement Plan for Union Employees at Little
Rock, AR
EIN: 21-0730107 PN: 002

Schedule SB, Part V—Statement of Actuarial Assumptions/Methods

For ERISA Requirements

Interest Rates for Minimum Funding Purposes	Based on segment rates with a four-month lookback (as of June 2012), each adjusted as needed to fall within the 25-year average interest rate corridor under MAP-21
1st Segment Rate	5.54%
2nd Segment Rate	6.85%
3rd Segment Rate	7.52%
Interest Rates for Maximum Tax Purposes	Based on segment rates with a four-month lookback (as of June 2012), without regard to the MAP-21 interest rate corridor
1st Segment Rate	1.84%
2nd Segment Rate	4.79%
3rd Segment Rate	5.90%
Retirement Age	
Active Participants	See Table 1
Terminated Vested Participants	Age 62
Mortality Rates	
Healthy	Generational mortality table for annuitants and non-annuitants per §1.430(h)(3)-1(d)
Disabled	Revenue Ruling 96-7 mortality table for disability after December 31, 1994
Withdrawal Rates	See Table 2
Disability Rates	See Table 3
Decrement Timing	Middle of year decrements, with 100% retirement occurring at beginning of year
Surviving Spouse Benefit	It is assumed that 80% of males and 80% of females have an eligible spouse, and that males are four years older than their spouses.

Schedule SB Attachment (Form 5500)—2012 Plan Year
Rhein Chemie Corporation Retirement Plan for Union Employees at Little
Rock, AR
EIN: 21-0730107 PN: 002

Benefit Limits	Projected benefits are limited by the current IRC section 415 maximum benefit of \$200,000.
Valuation of Plan Assets	<p>Smoothed fair market value of assets over the current and prior two years, adjusted for contributions, benefit payments, administrative expenses, and expected earnings. The average value of assets calculated in this manner is further limited to not less than 90% nor more than 110% of fair market value.</p> <p>A characteristic of this method is that the expected distribution of the value of plan assets is skewed toward understatement relative to the corresponding market values for expected long-term rates of return in excess of the third segment rate under IRC section 430(h)(2)(C)(iii).</p>
Expected Return on Assets	
2010 Plan Year	7.00%, limited to 6.68%
2011 Plan Year	7.00%, limited to 6.34%
Trust Expenses Included in Target Normal Cost	\$15,000 Annually, \$3,750 for the 2012 partial plan year (October 1, 2012 – December 31, 2012)
Optional Payment Form Election Percentage	The liabilities reflect the following optional form election percentages:
50% Joint & Survivor	30%
100% Joint & Survivor	20%
5-year Certain & Life	50%
Year of Service Subsequent to the Valuation Date	Each participant is assumed to accrue one year of vesting service for each future year unless information provided by the plan sponsor indicates otherwise
Retirement Benefits	If a retiree is older than his spouse and elects to commence a Pop-Up benefit, it is assumed that the participant will die before his spouse.
Actuarial Method	Standard unit credit cost method
Valuation Date	October 1, 2012

Schedule SB Attachment (Form 5500)—2012 Plan Year
Rhein Chemie Corporation Retirement Plan for Union Employees at Little
Rock, AR
EIN: 21-0730107 PN: 002

For ERISA Requirements

Changes in prescribed assumptions since prior year:

- A change in the interest rate assumption from segment rates with a four-month look-back (2.27%, 5.43%, and 6.34%) as of June 2011 to segment rates with a four-month look-back (1.84%, 4.79%, 5.90%) as of June 2012 each adjusted as needed to fall within the 25-year average interest rate corridor under MAP 21 (5.54%, 6.85%, and 7.52%).
- A change in the mortality assumption from the 2011 IRS gender distinct mortality table to the 2008 PY IRC 430 Generational (Scale AA) for annuitants and non-annuitants per §1.430(h)(3)-1(e).

Schedule SB Attachment (Form 5500)—2012 Plan Year
Rhein Chemie Corporation Retirement Plan for Union Employees at Little
Rock, AR
EIN: 21-0730107 PN: 002

Table 1

Retirement Rates

Age	Years of Service	
	0-29	30+
60	0.00%	100.00%
61	0.00%	100.00%
62+	100.00%	100.00%

Schedule SB Attachment (Form 5500)—2012 Plan Year
Rhein Chemie Corporation Retirement Plan for Union Employees at Little
Rock, AR
EIN: 21-0730107 PN: 002

Table 2

Withdrawal Rates

Service	Rate
0	10.00%
1	10.00%
2	8.00%
3	8.00%
4	6.00%
5	6.00%
6	4.00%
7	4.00%
8	2.00%
9	2.00%
10+	0.00%

Schedule SB Attachment (Form 5500)—2012 Plan Year
Rhein Chemie Corporation Retirement Plan for Union Employees at Little
Rock, AR
EIN: 21-0730107 PN: 002

Table 3
Disability Rates

Age	Rate	Age	Rate
16	0.03%	46	0.11%
17	0.03%	47	0.12%
18	0.03%	48	0.14%
19	0.03%	49	0.16%
20	0.03%	50	0.18%
21	0.03%	51	0.20%
22	0.03%	52	0.23%
23	0.03%	53	0.26%
24	0.03%	54	0.30%
25	0.03%	55	0.36%
26	0.04%	56	0.42%
27	0.04%	57	0.50%
28	0.04%	58	0.59%
29	0.04%	59	0.69%
30	0.04%	60	0.90%
31	0.04%	61	1.16%
32	0.04%	62	1.46%
33	0.05%	63	1.81%
34	0.05%	64	2.22%
35	0.05%	65+	0.00%
36	0.06%		
37	0.06%		
38	0.06%		
39	0.06%		
40	0.07%		
41	0.07%		
42	0.08%		
43	0.08%		
44	0.09%		
45	0.10%		

Schedule SB Attachment (Form 5500)—2012 Plan Year
Rhein Chemie Corporation Retirement Plan for Union Employees at Little
Rock, AR
EIN: 21-0730107 PN: 002

Schedule SB, Part V—Summary of Plan Provisions

History of Plan

The Tire Curing Bladders, LLC ("TCB LLC") entered into an asset purchase agreement with Pirelli Tire, LLC effective April 30, 2005. Under such agreement TCB LLC has established this plan solely for the participants of the Pirelli Tire Retirement Pension Plan (the "Pirelli Tire Plan") as of August 15, 2004 that were subject to the Little Rock collective bargaining agreement of which such employees continue to remain employed with the Employer on or after April 30, 2005. LANXESS U.S. acquired TCB LLC in 2012 and now maintains the plan.

Participation

Employees who were part of Pirelli Tire Retirement Pension Plan as of August 15, 2004 and continued to be employed on or after April 30, 2005

Plan Freeze

On August 15, 2004, service was frozen for all active participants. Nonvested participants were fully vested in their benefit upon termination.

Normal Retirement

Eligibility

Age 65 and 5 years **of service**

Monthly Benefit

A+B, subject to a minimum monthly benefit of \$41.00 multiplied by the participant's credit service:

A: 0.5% of final compensation (monthly) prior to the participant's 5th anniversary date, multiplied by his full years of past service to said anniversary date

B: 0.5% of final compensation (monthly) up to \$3,000 plus 1% of final compensation over \$3,000, multiplied by his credit service between said anniversary date and his normal retirement date

Early Retirement

Eligibility

Age 55 and 10 years of service

Benefit

Accrued normal retirement benefit reduced 4/10% for each month that the commencement date precedes the month in which the participant attains age

Schedule SB Attachment (Form 5500)—2012 Plan Year
Rhein Chemie Corporation Retirement Plan for Union Employees at Little
Rock, AR
EIN: 21-0730107 PN: 002

Unreduced Early Retirement

Eligibility

Age 62 and 10 years of service, or
Complete 30 years of service

Monthly Benefit

Unreduced normal retirement benefit

Special Early Retirement

Eligibility

Age 55 and 30 years of service

Monthly Benefit

Pre-62: \$50 multiplied by credit service plus \$10 multiplied by credit service after age 55
Post-62: Unreduced normal retirement benefit

Late Retirement

Benefit

Accrued normal retirement benefit, including accruals beyond age 65

Disability Retirement

Eligibility

10 years of service and total disability

Benefit

Unreduced accrued benefit at time of disability, payable in the sixth month following the disability

Deferred Vested Retirement

Eligibility

5 years of service.

Benefit

Accrued benefit at termination if benefits deferred to normal retirement age;
Actuarial equivalent of accrued benefit at termination if commencing before normal retirement age

Schedule SB Attachment (Form 5500)—2012 Plan Year
Rhein Chemie Corporation Retirement Plan for Union Employees at Little
Rock, AR
EIN: 21-0730107 PN: 002

Preretirement Death Benefit

Eligibility

5 years of service and married for at least one year

Benefit

For active participants: Qualified Joint & Survivor Annuity (QJSA) deferred to participant's earliest retirement age, reduced based on actuarial equivalence if commencing immediately

For terminated vested participants: Deferred vested benefit payable as a QJSA at the earliest retirement date, reduced by 0.5% for each year of coverage

Supplemental Postretirement Death Benefit

Eligibility

Retired from active status, or retired from terminated vested status after age 60, and married for at least one year

Benefit

Lump sum of \$4,000

Transition Survivor Income Benefit

Eligibility

30 days of credit service at death

Monthly Benefit

\$500 less any qualified preretirement survivor annuity payable, subject to a maximum of \$300, payable until survivor reaches age 62 for at most two years.

Bridge Survivor Benefit

Eligibility

Age 45 at death

Monthly Benefit

\$500 less any qualified preretirement survivor annuity payable, subject to a maximum of \$300, payable two years after death and until survivor reaches age 62 or remarries.

Special Medicare Benefit

Eligibility

Age 65

Schedule SB Attachment (Form 5500)—2012 Plan Year
Rhein Chemie Corporation Retirement Plan for Union Employees at Little
Rock, AR
EIN: 21-0730107 PN: 002

Monthly Benefit

\$50, subject to maximum of the standard monthly premium for Medicare Part B coverage

Form of Benefit Payment

Normal

Single participant: Five-year certain and life annuity

Married participant: 50% joint & survivor annuity

Optional

10 and 15 year certain and life annuity; 50% and 100% joint & survivor annuity with Pop-up; cash refund annuity

Changes Since the Prior Year

The funding and plan reporting valuations do not reflect any plan changes.

Other Information to Fully and Fairly Disclose the Actuarial Position of the Plan

Due to software limitations with the electronic filing process, information filed electronically cannot be controlled by the Enrolled Actuary. The values on the signed Schedule SB will govern to the extent there are any differences in the entries filed electronically and the actual data contained on the signed Schedule SB.

There has been a change in the enrolled actuary for the plan since the 2011 plan year. LANXESS Corporation acquired the RCC Plan in 2012 through a business acquisition. Hewitt Associates, operating as Aon Hewitt, has been providing actuarial services for the LANXESS' plans and thus was employed to provide services related to the RCC Plan for plan years 2012 and on. As a result, the enrolled actuary has changed.

LANXESS Corporation has changed the RCC Plan to calendar year. Therefore, 2012 plan year for the RCC Plan is a short plan year from October 1, 2012 to December 31, 2012.

Schedule SB Attachment (Form 5500)—2012 Plan Year
Rhein Chemie Corporation Retirement Plan for Union Employees at Little
Rock, AR
EIN: 21-0730107 PN: 002

Schedule SB, line 26—Schedule of Active Participant Data as of October 1, 2012
Number of Participants and Credited Service

Attained Age	Years of Credited Service									
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40+
<25										
25-29										
30-34										
35-39										
40-44		1								
45-49			3			1				
50-54					1		2			
55-59			1				5	1		
60-64							1			
65-69							1			
70+										

N-17

Schedule SB Attachment (Form 5500)—2012 Plan Year
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Schedule SB, line 24—Change in Actuarial Assumptions

The funding valuation reflects the following non-prescribed assumption changes:

- Optional Payment Form Election Percentage has been updated to:
 - 5-year Certain and Life: 50%
 - 50% Joint and Survivor: 30%
 - 100% Joint and Survivor: 20%
- A change in the assumed expenses payable from the trust from \$0 to \$15,000 annually (\$3,750 for the 2012 partial plan year from October 1, 2012 – December 31, 2012).

The assumption changes above were made to better reflect the anticipated plan experience and reduced the funding shortfall by less than 5% of the Funding Target before the change. As such, approval of the Commissioner is not required.

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Schedule SB, line 32—Schedule of Amortization Bases

Type Of Base	Present Value of Installments	Valuation Date Established	Remaining Years in Amortization Period	Amortization Amount
Shortfall	\$727,040	October 1, 2009	4	\$196,714
Shortfall	\$135,701	October 1, 2010	5	\$30,143
Shortfall	\$701,438	October 1, 2011	6	\$134,377
Shortfall	<u>(\$397,837)</u>	October 1, 2012	7	<u>(\$67,523)</u>
Total	\$1,166,342			\$293,711

The Installment for the period October 1, 2012 to December 31, 2012 will be \$293,711 / 4 = \$73,428.

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Schedule SB, line 15—Reconciliation of Differences Between Valuation Results and
Amounts Used to Calculate AFTAP

The AFTAP for the Plan was originally issued on June 28, 2013. The AFTAP was revised and reissued on September 26, 2013 to reflect the change in VPA due to a revision in the market value of assets used in the calculation. The inputs used in each certification are outlined below:

	Certification Date	
	6/28/2013	9/26/2013
Funding Target	\$ 3,620,683	\$ 3,620,683
Value of Plan Assets	\$ 2,439,060	\$ 2,454,341
Funding Standard Carryover Balance	\$ 0	\$ 0
Prefunding Balance	\$ 0	\$ 0
Annuities Purchased for NHCE's	\$ 0	\$ 0
Security Posted	\$ 0	\$ 0
Certified AFTAP	67.36%	67.78%

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Schedule SB, Part V—Statement of Actuarial Assumptions/Methods

For ERISA Requirements

Interest Rates for Minimum Funding Purposes	Based on segment rates with a four-month lookback (as of June 2012), each adjusted as needed to fall within the 25-year average interest rate corridor under MAP-21
1st Segment Rate	5.54%
2nd Segment Rate	6.85%
3rd Segment Rate	7.52%
Interest Rates for Maximum Tax Purposes	Based on segment rates with a four-month lookback (as of June 2012), without regard to the MAP-21 interest rate corridor
1st Segment Rate	1.84%
2nd Segment Rate	4.79%
3rd Segment Rate	5.90%
Retirement Age	
Active Participants	See Table 1
Terminated Vested Participants	Age 62
Mortality Rates	
Healthy	Generational mortality table for annuitants and non-annuitants per §1.430(h)(3)-1(d)
Disabled	Revenue Ruling 96-7 mortality table for disability after December 31, 1994
Withdrawal Rates	See Table 2
Disability Rates	See Table 3
Decrement Timing	Middle of year decrements, with 100% retirement occurring at beginning of year
Surviving Spouse Benefit	It is assumed that 80% of males and 80% of females have an eligible spouse, and that males are four years older than their spouses.

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Benefit Limits	Projected benefits are limited by the current IRC section 415 maximum benefit of \$200,000.
Valuation of Plan Assets	<p>Smoothed fair market value of assets over the current and prior two years, adjusted for contributions, benefit payments, administrative expenses, and expected earnings. The average value of assets calculated in this manner is further limited to not less than 90% nor more than 110% of fair market value.</p> <p>A characteristic of this method is that the expected distribution of the value of plan assets is skewed toward understatement relative to the corresponding market values for expected long-term rates of return in excess of the third segment rate under IRC section 430(h)(2)(C)(iii).</p>
Expected Return on Assets	
2010 Plan Year	7.00%, limited to 6.68%
2011 Plan Year	7.00%, limited to 6.34%
Trust Expenses Included in Target Normal Cost	\$15,000 Annually, \$3,750 for the 2012 partial plan year (October 1, 2012 – December 31, 2012)
Optional Payment Form Election Percentage	The liabilities reflect the following optional form election percentages:
50% Joint & Survivor	30%
100% Joint & Survivor	20%
5-year Certain & Life	50%
Year of Service Subsequent to the Valuation Date	Each participant is assumed to accrue one year of vesting service for each future year unless information provided by the plan sponsor indicates otherwise
Retirement Benefits	If a retiree is older than his spouse and elects to commence a Pop-Up benefit, it is assumed that the participant will die before his spouse.
Actuarial Method	Standard unit credit cost method
Valuation Date	October 1, 2012

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For ERISA Requirements

Changes in prescribed assumptions since prior year:

- A change in the interest rate assumption from segment rates with a four-month look-back (2.27%, 5.43%, and 6.34%) as of June 2011 to segment rates with a four-month look-back (1.84%, 4.79%, 5.90%) as of June 2012 each adjusted as needed to fall within the 25-year average interest rate corridor under MAP 21 (5.54%, 6.85%, and 7.52%).
- A change in the mortality assumption from the 2011 IRS gender distinct mortality table to the 2008 PY IRC 430 Generational (Scale AA) for annuitants and non-annuitants per §1.430(h)(3)-1(e).

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Table 1

Retirement Rates

Age	Years of Service	
	0-29	30+
60	0.00%	100.00%
61	0.00%	100.00%
62+	100.00%	100.00%

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Table 2

Withdrawal Rates

Service	Rate
0	10.00%
1	10.00%
2	8.00%
3	8.00%
4	6.00%
5	6.00%
6	4.00%
7	4.00%
8	2.00%
9	2.00%
10+	0.00%

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Table 3
Disability Rates

Age	Rate	Age	Rate
16	0.03%	46	0.11%
17	0.03%	47	0.12%
18	0.03%	48	0.14%
19	0.03%	49	0.16%
20	0.03%	50	0.18%
21	0.03%	51	0.20%
22	0.03%	52	0.23%
23	0.03%	53	0.26%
24	0.03%	54	0.30%
25	0.03%	55	0.36%
26	0.04%	56	0.42%
27	0.04%	57	0.50%
28	0.04%	58	0.59%
29	0.04%	59	0.69%
30	0.04%	60	0.90%
31	0.04%	61	1.16%
32	0.04%	62	1.46%
33	0.05%	63	1.81%
34	0.05%	64	2.22%
35	0.05%	65+	0.00%
36	0.06%		
37	0.06%		
38	0.06%		
39	0.06%		
40	0.07%		
41	0.07%		
42	0.08%		
43	0.08%		
44	0.09%		
45	0.10%		