



U.S. Department
of Transportation

**Pipeline and Hazardous
Materials Safety
Administration**

1200 New Jersey Avenue SE
Washington, DC 20590

AUG 12 2015

Mr. Greg Payne
Support Center Manager/ Field Support Specialist
Transport Corp. of America
2875 West Penn St.
North Liberty, IA 52317

Reference No. 15-0085

Dear Mr. Payne:

This is in response to your May 1, 2015 e-mail request and subsequent telephone conversation with a member of my staff regarding requirements under the Hazardous Materials Regulations (HMR; 49 CFR Parts 171-180) applicable to hazardous substances. You state that you received a violation for not indicating the letters RQ on the shipping paper for a shipment of UN 1760, Corrosive liquid, n.o.s (Phosphoric Acid, Hydrofluoric Acid) 8, PG II, 2 Drums, 1096 LBS. You ask if there is an HMR requirement for the shipper to include the weight or concentration range of each hazardous component of a mixture on shipping papers.

The answer to your question is no. There is no requirement for a shipper to indicate weights or concentration ranges for hazardous components of a mixture or solution. Section 172.203(c) prescribes the documentation requirements for materials that are hazardous substances. Based on the information provided, since the weight of the hydrofluoric acid in the mixture is below the 100 pound limit indicated in Appendix A to § 172.101, the letters "RQ" on the shipping paper would not be required for this hazardous material.

I trust this information is helpful. If you have further questions, please do not hesitate to contact this office.

Sincerely,

Duane Pfund
International Standards Coordinator
Standards and Rulemaking Division

Goodall, Shante CTR (PHMSA)

Webb
172.203(c)(2)
Hazardous Substance
15-0085

From: Geller, Shelby CTR (PHMSA)
Sent: Friday, May 01, 2015 4:14 PM
To: Hazmat Interps
Subject: FW: Transport America Interpretation letter for RQ
Attachments: RQ.pdf; FW: 30030624 / TCAM 6142485 Material Info; BARDA MEX BOL # 81111071.pdf

Hi Shante and Alice,

Attached is a formal letter of interpretation.

Thanks,
Shelby

From: Greg Payne [mailto:Greg.Payne@transportamerica.com]
Sent: Friday, May 01, 2015 9:56 AM
To: PHMSA HM InfoCenter
Subject: FW: Transport America Interpretation letter for RQ

May 1, 2015

Office of Hazardous Materials Standards
Pipeline and Hazardous Materials Safety Administration
Attn: PHH-10
U.S Department of Transportation
East Building
1200 New Jersey Avenue S.E.
Washington DC 20590-0001

RE: Request for Interpretation regarding determining a Hazardous Substance RQ Listing on the bill of lading, Regulation 172.203 (c) (2).

To Whom it May Concern:

Transport America is requesting guidance in determining if a shipper needs to include on the bills the formula for a finished good to determine if the mixture is required to include an RQ on the bill of lading.

We received a violation from the DOT For: RQ NOT ON SHIPPING PAPER (FMCSR 172.203 (c) (2) – UN1760 Corrosive liquid, n.o.s (Phosphoric Acid, Hydrofluoric Acid) 8, PGII, 2 Drums, 1096 LBS. (548 lbs. per drum)
According to the Hazardous Substance table Phosphoric Acid would need a RQ if it is 5,000 lbs. or more per container and Hydrofluoric Acid if it is 100 lbs. or more per container.

Is there a HMR that states shippers have to include the weight of each Hazardous Substance in a mixture per container?
Or is the officer incorrect when it comes to interpreting the HMR for RQ?

According to the shipper, Chemetall, they are not required to include the total weight, of each hazardous Raw Material included in the recipe for a Finished good? Is this correct?

Transport America Data Qu with the state DOT and included interpretation letter 12-0181 Q3 A3: . **Please see the attached document RQ.pdf.**

The DOT came back with regulation 177.817 (a) *General requirements*. A person may not accept a hazardous material for transportation or transport a hazardous material by highway unless that person has received a shipping paper prepared in accordance with part 172 of this subchapter or the material is excepted from shipping paper requirements under this subchapter. A subsequent carrier may not transport a hazardous material unless it is accompanied by a shipping paper prepared in accordance with part 172 of this subchapter, except for §172.204, which is not required.

After this Data Qu was denied by the state we received the formula from the shipper: According to them there is only 10 lbs. 1.8 % of Hydrofluoric Acid in the mixture. **Please see the attached E-mail which includes the MSDS. Also included the actual Bill of Lading.**

How do we find a resolution to this violation so it doesn't happen in this particular state again?

Thank you,

Greg Payne

GREG PAYNE

Support Center Manager/ Field Support Specialist

Hazmat Specialist

TRANSPORT CORP. OF AMERICA

N. Liberty, IA.

651-688-4429

651-994-5781 FAX

Greg.Payne@Transportamerica.com



Goodall, Shante CTR (PHMSA)

From: Greg Payne <Greg.Payne@transportamerica.com>
Sent: Thursday, April 30, 2015 2:07 PM
To: Greg Payne
Subject: FW: 30030624 / TCAM 6142485 Material Info
Attachments: CRYSCOAT 747.pdf

From: Tom Allen [<mailto:Tom.Allen@chemetail.com>]
Sent: Thursday, April 23, 2015 12:06 PM
To: Michelle Solheid
Cc: Wayne Williams
Subject: 30030624 / TCAM 6142485 Material Info


MSDS














Packaging Material HDPE High-density polyethylene









Material Volume = 55 gallons

HF = 1.8% of composition

Weight of Finished Good in Drum = 525#

Object			
Material	000000000003838000	CrysCoat 747 (Bulk)	
Class Type	001 	Material class	

Assignments						
Class	Description	Sta	S	Ic	Itm	
FINAL_COMP	Final Composition	<input type="checkbox"/>	1	<input checked="" type="checkbox"/>	1	
TYP_PROP	Typical Properties	<input type="checkbox"/>	1	<input checked="" type="checkbox"/>	1	
          						
Entry 1 / 2						

Values for Class FINAL_COMP - Object 000000000003838000		
General		
Characteristic Description	Value	
Weight % 10	5.0000	
Chemical Name 10	NONYL PHENOL POLY ETHOXY ETHA..	
CAS # 10	9016-45-9	
Final Composition Raw M...	R1193	
Weight % 11	1.8000	
Chemical Name 11	HYDROFLUORIC ACID	
CAS # 11	7664-39-3	
Final Composition Raw M...		

Chemetall
expect more 

An ALBEMARLE Company



Please consider the environment before printing the email and/or any related attachments.
 [attachment "MEX BOL # 81111071.pdf" deleted by Wayne Williams/Chemetall US Inc./Chemetall]
 [attachment "BARDA TX DataQ 1302748 6A04 results.pdf" deleted by Wayne Williams/Chemetall US Inc./Chemetall]

Chemetall
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Page

1/15



26.02.2015 81111071

42274981

30030624/19.02.2015

Scheduled Ship Date

Shipper's No.

Consignee P.O. No. - Release No.

Order No. / Date

From: Chemetall US, Inc.
1100 Technology Drive
JACKSON MI 49201

Ship VIA TRANSPORT AMERICA 4

EMERGENCY CONTACT / 24 HOUR NUMBER:

CHEMTREC - (800) 424-9300
CONTRACT# 16160

Freight Charges are:

PREPAID

Consigned To: 78681

Send Freight Bill To:

Chemetail Mexicana - Monterrey
Fraccionamiento Industrial Lincoln
Nueva York 4037
64310 MONTERREY

Carrier's Notes:

VIA LAREDO TEXAS, FOR CUSTOMS CLEARANCE AND BORDER CROSSING CONTACT:
NOWGROUP/14414 IMPORT ROAD, LAREDO, TX 78045 USA (INTERNATIONAL TRADE CENTER)
ITC - PHONE 956-724-6950, FAX (956) 724 4237 *** 3 COPIES (FREIGHT, DRIVER,
FILE) OF SAP BOL REQ'D WITH EVERY ORDER.

FOR FREIGHT COLLECT SHIPMENTS:
If this shipment is to be delivered to the consignee, without recourse to the consignor, the consignor shall sign the following statement; The carrier may decline to make delivery of this shipment without payment of freight and all other lawful charges.

X

(Signature of Consignor)

Pcs.	Product Name		Product Code	Weight Lbs.	Batch No. - Bin No.
4	Gardobond Additive H 7204 (5 GAL/19 Batches: 881125141 = 4		6649006	176	

PKGS.	HB	Kind of Pkg.	Description of Articles, Special Marks and Exceptions	Lbs.
8		PAIL	CLEANING COMPOUND, NOIBN LIQUID OR POWDER NMFC 48581 OR 48580 S3 CLASS 55	360
4	X	PAIL	NA1993, COMBUSTIBLE LIQUID, N.O.S., (HYDROTREATED LIGHT DISTILATE), III, FP > 141° F NMFC 155250 S2	135
18		PAIL	CLEANING COMPOUND, NOIBN LIQUID OR POWDER NMFC 48581 OR 48580 S3 CLASS 55	988
6	X	PAIL	UN3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., (FERRIC SULFATE,NITRIC ACID) 8, II - NMFC 44155 S3	306
				PROTECT FROM FREEZING -32

136	◀ TOTAL PACKAGES	IF DAMAGE OR DELAYS OCCUR, CONTACT:	TOTAL WEIGHT ▶	42188
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FAX/EMAIL PROFORMA TO JACARANDA SUCHIL. KEEP ONE COPY FOR SCANNING. SEND C/A WITH SHIPMENT FOR ARDROX 2865 & 2871 ONLY.

SHIPPERS CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. Chemetail US, Inc., Shipper per, Ryan Cull. This consignment is offered by Chemetail US, Inc. 675 Central Ave., New Providence, NJ 07974, USA - Telephone (800) 464-6300, who has contracted for the emergency contact information shown above between the named origin and destination only.

☐ C of A

☐ SPCL REQMTS

OK

Date

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PICK LIST

Page

2/15

26.02.2015 81111071

42274981

30030624/19.02.2015

Scheduled Ship Date

Shipper's No.

Consignee P.O. No. - Release No.

Order No. / Date

From: Chemetall US, Inc.

Ship VIA TRANSPORT AMERICA 4

1100 Technology Drive

EMERGENCY CONTACT / 24 HOUR NUMBER:

JACKSON MI 49201

Freight Charges are:

CHEMTREC - (800) 424-9300

PREPAID

CONTRACT# 16160

Consigned To: 78681

Send Freight Bill To:

Chemetall Mexicana - Monterrey
Fraccionamiento Industrial Lincoln
Nueva York 4037
64310 MONTERREY

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VIA LAREDO TEXAS, FOR CUSTOMS CLEARANCE AND BORDER CROSSING CONTACT:
NOWGROUP/14414 IMPORT ROAD, LAREDO, TX 78045 USA (INTERNATIONAL TRADE CENTER)
ITC - PHONE 956-724-6950, FAX (956) 724 4237 *** 3 COPIES (FREIGHT, DRIVER, FILE) OF SAP BOL REQ'D WITH EVERY ORDER.

Pcs.	Product Name	Product Code	Weight Lbs.	Batch No. - Bin No.
4	TECH DRAW 9240 (5 Gal/17 Ltr Pail)	76347009	135	
4	Batches: 880220151 = 4 Gardobond Additive H 7271 *(5-gal p Batches: 881201141 = 4	10295006	176	

PKGS.	HM	Kind of Pkg.	Description of Articles, Special Marks and Exceptions	Lbs.
2		PAIL	METAL CUTTING, DRAWING COMPOUND - NMFC 50455	90
21		PAIL	CLEANING COMPOUND, NOIBN POWDER NMFC 48581	PROTECT FROM FREEZING -32 1071
29		DRUM	CLEANING COMPOUND, NOIBN LIQUID OR POWDER NMFC 48581 OR 48580 S3 CLASS 55	PROTECT FROM FREEZING -32 9371
1		DRUM	METAL CUTTING, DRAWING COMPOUND - NMFC 50455	478

See Page 1

TOTAL PACKAGES

IF DAMAGE OR DELAYS OCCUR, CONTACT:

TOTAL WEIGHT

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Page

3/15

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Scheduled Ship Date

Shipper's No.

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Order No. / Date

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1100 Technology Drive
JACKSON MI 49201

Ship VIA TRANSPORT AMERICA 4

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Nueva York 4037
64310 MONTERREY
MEXICO

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Carrier's Delivery Notes:

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ITC - PHONE 956-724-6950, FAX (956) 724 4237 *** 3 COPIES (FREIGHT, DRIVER, FILE) OF SAP BOL REQ'D WITH EVERY ORDER.

Pcs.	Product Name	Product Code	Weight Lbs.	Batch No. - Bin No.
6	Deoxidizer LNC (4 GAL / 19 LITRE PA Batches: 880219151 = 6	3850006	306	
2	PROTEXO 1125* (5 Gal/19 Ltr Pail) Batches: 880115151 = 2	76186006	90	

PKGS.	HM	Kind of Pkg.	Description of Articles, Special Marks and Exceptions	Lbs.
1	X	DRUM	UN1760, CORROSIVE LIQUID, N.O.S., (NITRIC ACID,) 8, II - NMFC 44155 S3	481
6	X	DRUM	UN1805, PHOSPHORIC ACID, SOLUTION, 8, III NMFC 44155 S4	3318
8	X	DRUM	UN1805, PHOSPHORIC ACID, SOLUTION, 8, III NMFC 44155 S4	4200
15	X	DRUM	NA1993, COMBUSTIBLE LIQUID, N.O.S., (ETHYL ALCOHOL,) III - NMFC 155250 S2	7275
See Page 1 TOTAL PACKAGES				
IF DAMAGE OR DELAYS OCCUR, CONTACT:				
TOTAL WEIGHT				

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Page 4/15
 26.02.2015 81111071 42274981 30030624/19.02.2015
 Scheduled Ship Date Shipper's No. Consignee P.O. No. - Release No. Order No. / Date
 From: Chemetall US, Inc. Ship VIA TRANSPORT AMERICA 4
 1100 Technology Drive EMERGENCY CONTACT / 24 HOUR NUMBER: CHEMTREC - (800) 424-9300
 JACKSON MI 49201 Freight Charges are: PREPAID CONTRACT# 16160

Consigned To: 78681
 Chemetall Mexicana - Monterrey
 Fraccionamiento Industrial Lincoln
 Nueva York 4037
 64310 MONTERREY

Send Freight Bill To:

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 NOWGROUP/14414 IMPORT ROAD, LAREDO, TX 78045 USA (INTERNATIONAL TRADE CENTER)
 ITC - PHONE 956-724-6950, FAX (956) 724 4237 *** 3 COPIES (FREIGHT, DRIVER, FILE) OF SAP BOL REQ'D WITH EVERY ORDER.

Pcs.	Product Name	Product Code	Weight Lbs.	Batch No. - Bin No.
21	Chem Strip 5311 * (5 GAL/19 LTR PAI	201020015	1071	
14	Batches: 020129151 = 21 Enprox 8416 * (5 gal / 19 ltr) Batches: 10061413 = 14	207037006	812	

PKGS.	HM	Kind of Pkg.	Description of Articles, Special Marks and Exceptions	Lbs.
5		DRUM	PETROLEUM OIL, NOIBN - NMFC 155150	2331
2	X	DRUM	UN1760, CORROSIVE LIQUID, N.O.S., (PHOSPHORIC ACID, HYDROFLUORIC ACID) 8, II - NMFC 44155 S3	1096
4	X	DRUM	UN3266, CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S., (SODIUM METASILICATE,) 8, III - NMFC 44155 S4	2327
4		DRUM	RUST REMOVING OR PREVENTING COMPOUND O/T PETROLEUM - NMFC 50234 S3	1993
See Page 1 <div> <div> TOTAL PACKAGES </div> <div> IF DAMAGE OR DELAYS OCCUR, CONTACT: </div> <div> TOTAL WEIGHT </div> </div>				PROTECT FROM FREEZING -32

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Page

5/15

26.02.2015 81111071

42274981

30030624/19.02.2015

Scheduled Ship Date

Shipper's No.

Consignee P.O. No. - Release No.

Order No. / Date

From: Chemetall US, Inc.
1100 Technology Drive
JACKSON MI 49201

Ship VIA TRANSPORT AMERICA 4

EMERGENCY CONTACT / 24 HOUR NUMBER:

CHEMTREC - (800) 424-9300
CONTRACT# 16160

Freight Charges are:

PREPAID

Consigned To: 78681

Send Freight Bill To:

Chemtall Mexicana - Monterrey
Fraccionamiento Industrial Lincoln
Nueva York 4037
64310 MONTERREY
MEXICO

FOR FREIGHT COLLECT SHIPMENTS:
If this shipment is to be delivered to the consignee, without recourse to the consignor, the consignor shall sign the following statement; The carrier may decline to make delivery of this shipment without payment of freight and all other lawful charges.

X

(Signature of Consignor)

Carrier's Delivery Notes:

VIA LAREDO TEXAS, FOR CUSTOMS CLEARANCE AND BORDER CROSSING CONTACT:
NOWGROUP/14414 IMPORT ROAD, LAREDO, TX 78045 USA (INTERNATIONAL TRADE CENTER)
ITC - PHONE 956-724-6950, FAX (956) 724 4237 *** 3 COPIES (FREIGHT, DRIVER, FILE) OF SAP BOL REQ'D WITH EVERY ORDER.

Pcs.	Product Name		Product Code	Weight Lbs.	Batch No. - Bin No.
4	Liqui-Det (5 Gal/19 Ltr Pail)		4540006	184	
16	Batches: 880209151 = 4 GardoClean VP 4628 (20 Gal Drum) Batches: 880220151 = 16		6933008	2832	
PKGS.	HM	Kind of Pkg.	Description of Articles, Special Marks and Exceptions		Lbs.
1	X	BIN	UN1805, PHOSPHORIC ACID, SOLUTION, 8, III NMFC 44155 S4		2923
1	X	BIN	UN3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., (FERRIC SULFATE, NITRIC ACID) 8, II, RQ - NMFC 44155 S3		3445
See Page 1		TOTAL PACKAGES		IF DAMAGE OR DELAYS OCCUR, CONTACT:	TOTAL WEIGHT ➡

SHIPPERS CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. Chemtall US, Inc., Shipper per, Ryan Cull. This consignment is offered by Chemtall US, Inc. 675 Central Ave., New Providence, NJ 07974, USA - Telephone (908) 464-6300, who has contracted for the emergency contact information shown above between the named origin and destination only.

☐ C of A

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Page

26.02.2015 81111071

42274981

30030624/19.02.2015

Scheduled Ship Date

Shipper's No.

Consignee P.O. No. - Release No.

Order No. / Date

From: **Chemetall US, Inc.**

Ship VIA **TRANSPORT AMERICA 4**

1100 Technology Drive

EMERGENCY CONTACT / 24 HOUR NUMBER:

JACKSON MI 49201

Freight Charges are:

CHEMTREC - (800) 424-9300

CONTRACT# 16160

Consigned To: 78681

Send Freight Bill To:

Chemetall Mexicana - Monterrey

Fraccionamiento Industrial Lincoln

Nueva York 4037

64310 MONTERREY

Carrier Deliver Notes:

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Pcs.	Product Name	Product Code	Weight Lbs.	Batch No. - Bin No.
5 1	Gardoclean A 5549 (55 Gal/208 lt dr Batches: 880220151 = 5 Tech Cool 35035NB (55 GAL/208 LTR) Batches: 880116151 = 1	4406002 11770002	2465 478	
PKGS.	HM Kind of Pkg.	Description of Articles, Special Marks and Exceptions		Lbs.
See Page 1	TOTAL PACKAGES		IF DAMAGE OR DELAYS OCCUR, CONTACT:	TOTAL WEIGHT ➡

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C of A

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PICK LIST

Page

7/15

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(Signature of Consignor)

Pcs.	Product Name		Product Code	Weight Lbs.	Batch No. - Bin No.
1	Oxsilan 9810/2 (55 GAL/208 LTR)		11402002	481	
4	DA-246N (55 Gal/208 Ltr Drum)		76065002	1922	
	Batches: 020204151 = 1				
	Batches: 020205151 = 4				
PKGS.	HM	Kind of Pkg.	Description of Articles, Special Marks and Exceptions		Lbs.
See Page 1			TOTAL PACKAGES		
			IF DAMAGE OR DELAYS OCCUR, CONTACT:		
			TOTAL WEIGHT		

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Page 8/15			
26.02.2015	81111071	42274981	30030624/19.02.2015
Scheduled Ship Date	Shipper's No.	Consignee P.O. No. - Release No.	Order No. / Date
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1100 Technology Drive		EMERGENCY CONTACT / 24 HOUR NUMBER:	CHEMTREC - (800) 424-9300
JACKSON MI 49201		Freight Charges are: DRAFTED	CONTRACT# 16160

Consigned To: 78681
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Fraccionamiento Industrial Lincoln
Nueva York 4037
64310 MONTERREY

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ITC - PHONE 956-724-6950, FAX (956) 724 4237 *** 3 COPIES (FREIGHT, DRIVER,
FILE) OF SAP BOL REQ'D WITH EVERY ORDER.

Pcs.	Product Name	Product Code	Weight Lbs.	Batch No. - Bin No.
2	CrysCoat 2707 FF (55Gal/208 Ltr Dru Batches: 880209151 = 2	11349002	1082	
8	Chem Cote 3406 * (55 gal / 208 ltr Batches: 880218151 = 8	200956002	4200	

PKGS.	H#	Kind of Pkg.	Description of Articles, Special Marks and Exceptions	Lbs.
See Page 1 ← TOTAL PACKAGES			IF DAMAGE OR DELAYS OCCUR, CONTACT:	TOTAL WEIGHT →

SHIPPERS CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. Chemetal US, Inc., Shipper per, Ryan Cull. This consignment is offered by Chemetal US, Inc. 675 Central Ave., New Providence, NJ 07974, USA - Telephone (908) 464-6300, who has contracted for the emergency contact information shown above between the named origin and destination only.

☐ C of A ☐ SPCL REQMTS OK Date PLACARDS

Page

9/15

26.02.2015 81111071

42274981

30030624/19.02.2015

Scheduled Ship Date

Shipper's No.

Consignee P.O. No. - Release No.

Order No. / Date

From: Chemetall US, Inc.
1100 Technology Drive
JACKSON MI 49201

Ship VIA **TRANSPORT AMERICA 4**

EMERGENCY CONTACT / 24 HOUR NUMBER:

CHEMTREC - (800) 424-9300
CONTRACT# 16160

Freight Charges are:

RIGHT CHARGES ARE REPAYED

Consigned To: **78681**

Send Freight Bill To:

Chemetrall Mexicana - Monterrey
Fraccionamiento Industrial Lincoln
Nueva York 4037
64310 MONTERREY

FOR FREIGHT COLLECT SHIPMENTS:

If this shipment is to be delivered to the consignee, without recourse to the consignor, the consignor shall sign the following statement; The carrier may decline to make delivery of this shipment without payment of freight and all other lawful charges.

x

(Signature of Consignor)

MEXICO
Carpet Delivery Notes:

VIA LAREDO TEXAS, FOR CUSTOMS CLEARANCE AND BORDER CROSSING CONTACT:
 NOWGROUP/14414 IMPORT ROAD, LAREDO, TX 78045 USA (INTERNATIONAL TRADE CENTER)
 ITC - PHONE 956-724-6950, FAX (956) 724 4237 *** 3 COPIES (FREIGHT, DRIVER,
 FILE) OF SAP BOL REQ'D WITH EVERY ORDER.

Pcs.	Product Name	Product Code	Weight Lbs.	Batch No. - Bin No.
12	Gardolene D 6871 (55 Gal / 208 Ltr Batches: 880219151 = 12	10232002	5820	
1	Oakite 98 (55Gal/208 Ltr Drum) Batches: 39012915 = 1	10585007	454	

PKGS.	HM	Kind of Pkg.	Description of Articles, Special Marks and Exceptions	Lbs.

See Page 1
◀ TOTAL PACKAGES
IF DAMAGE OR DELAYS OCCUR, CONTACT:
TOTAL WEIGHT ▶

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 C of A

SPCL REQMTS

OK

Date _____

PLACARDS

Page 10/15 26.02.2015	81111071	42274981	30030624/19.02.2015
Scheduled Ship Date	Shipper's No.	Consignee P.O. No. - Release No.	Order No. / Date
From: Chemetall US, Inc. 1100 Technology Drive JACKSON MI 49201		Ship VIA TRANSPORT AMERICA 4 EMERGENCY CONTACT / 24 HOUR NUMBER: Freight Charges are: PREPAID	CHEMTREC - (800) 424-9300 CONTRACT# 16160

Consigned To: 78681
Chemetall Mexicana - Monterrey
Fraccionamiento Industrial Lincoln
Nueva York 4037
64310 MONTERREY

Send Freight Bill To:

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(Signature of Consignor)

Carrier Delivery Notes:

VIA LAREDO TEXAS, FOR CUSTOMS CLEARANCE AND BORDER CROSSING CONTACT:
NOWGROUP/14414 IMPORT ROAD, LAREDO, TX 78045 USA (INTERNATIONAL TRADE CENTER)
ITC - PHONE 956-724-6950, FAX (956) 724 4237 *** 3 COPIES (FREIGHT, DRIVER,
FILE) OF SAP BOL REQ'D WITH EVERY ORDER.

Pcs.	Product Name	Product Code	Weight Lbs.	Batch No. - Bin No.
2	CrysCoat 747 (55Gal/208 Ltr Drum) Batches: 880122151 = 2	3838002	1096	
1	Rust Preventive 1 (55Gal/208Ltr Dr) Batches: 880218151 = 1	5000002	458	

PKGS.	HM	Kind of Pkg.	Description of Articles, Special Marks and Exceptions	Lbs.
See Page 1			IF DAMAGE OR DELAYS OCCUR, CONTACT:	TOTAL WEIGHT ➡

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☐ C of A ☐ SPCL REQMTS OK Date _____ PLACARDS

PICK LIST

Page

11/15

26.02.2015 81111071

42274981

30030624/19.02.2015

Scheduled Ship Date

Shipper's No.

Consignee P.O. No. - Release No.

Order No. / Date

From: Chemetall US, Inc.
1100 Technology Drive
JACKSON MI 49201

Ship VIA TRANSPORT AMERICA 4

EMERGENCY CONTACT / 24 HOUR NUMBER:

CHEMTREC - (800) 424-9300
CONTRACT# 16160

Freight Charges are:

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Consigned To: 78681

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Carrier's Notes:

VIA LAREDO TEXAS, FOR CUSTOMS CLEARANCE AND BORDER CROSSING CONTACT:
NOWGROUP/14414 IMPORT ROAD, LAREDO, TX 78045 USA (INTERNATIONAL TRADE CENTER)
ITC - PHONE 956-724-6950, FAX (956) 724 4237 *** 3 COPIES (FREIGHT, DRIVER, FILE) OF SAP BOL REQ'D WITH EVERY ORDER.

Pcs.	Product Name		Product Code	Weight Lbs.	Batch No. - Bin No.	
3	Gardobond AP 9809 (55-gal/208-ltr D		11147002	1455		
	Batches: 880203151 = 3					
4	GEO-GUARD 4021* (55 Gal/206 Ltr Dru		76106002	2327		
	Batches: 881105141 = 2 , 881219141 = 2					
PKGS.	HM	Kind of Pkg.	Description of Articles, Special Marks and Exceptions			Lbs.
See Page 1	TOTAL PACKAGES		IF DAMAGE OR DELAYS OCCUR, CONTACT:		TOTAL WEIGHT	

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☐ C of A

☐ SPCL REQMTS

OK

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PLACARDS

Page

26.02.2015

81111071

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30030624/19.02.2015

Scheduled Ship Date

Shipper's No.

Consignee P.O. No. - Release No.

Order No. / Date

From: **Chemetall US, Inc.**

Ship VIA **TRANSPORT AMERICA 4**

1100 Technology Drive
JACKSON MI 49201

EMERGENCY CONTACT / 24 HOUR NUMBER:

CHEMTREC - (800) 424-9300

Freight Charges are:

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CONTRACT# 16160

Consigned To: 78681

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FILE) OF SAP BOL REQ'D WITH EVERY ORDER.

Pcs.	Product Name	Product Code	Weight Lbs.	Batch No. - Bin No.	
4	Gardoclean S 5679 (54 GAL/204 LTR D	70135002	2152		
3	Batches: 880205151 = 4 TECH DRAW 9663 (55 Gal/208 Ltr Drum Batches: 83021115 = 3	76351024	1419		
PKGS.	HM	Kind of Pkg.	Description of Articles, Special Marks and Exceptions		Lbs.
See Page 1	TOTAL PACKAGES		IF DAMAGE OR DELAYS OCCUR, CONTACT:		TOTAL WEIGHT ➡

Page
13/15

26.02.2015 81111071
Scheduled Ship Date Shipper's No.
From: Chemetall US, Inc.
1100 Technology Drive
JACKSON MI 49201

42274981

Consignee P.O. No. - Release No.

Ship VIA **TRANSPORT AMERICA 4**

EMERGENCY CONTACT / 24 HOUR NUMBER:

Freight Charges are:

Order No. / Date

CHEMTREC - (800) 424-9300
CONTRACT# 16160

Consigned To: 78681
Chemetall Mexicana - Monterrey
Fraccionamiento Industrial Lincoln
Nueva York 4037
64310 MONTERREY

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(Signature of Consignor)

MEXICO
Carrier Delivery Notes:

VIA LAREDO TEXAS, FOR CUSTOMS CLEARANCE AND BORDER CROSSING CONTACT:
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ITC - PHONE 956-724-6950, FAX (956) 724 4237 *** 3 COPIES (FREIGHT, DRIVER,
FILE) OF SAP BOL REQ'D WITH EVERY ORDER.

Pcs.	Product Name	Product Code	Weight Lbs.	Batch No. - Bin No.
2	CrysCoat 2147 (55Gal/208 Ltr Drum)	3812002	1156	
4	Batches: 880217151 = 2 PROTECH 1999LC (55 Gal/208 Ltr Drum)	76180002	1993	
	Batches: 880204151 = 4			

PKGS.	HK	Kind of Pkg.	Description of Articles, Special Marks and Exceptions	Lbs.
See Page 1 ◀ TOTAL PACKAGES			IF DAMAGE OR DELAYS OCCUR, CONTACT:	TOTAL WEIGHT ▶

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C of A

SPCL REQMTS

OK

Date _____

PLACARDS

PLACARDS

PICK LIST

Page

15/15

26.02.2015 81111071

42274981

30030624/19.02.2015

Scheduled Ship Date

Shipper's No.

Consignee P.O. No. - Release No.

Order No. / Date

From: **Chemetail US, Inc.**
1100 Technology Drive
JACKSON MI 49201

Ship VIA **TRANSPORT AMERICA 4**

EMERGENCY CONTACT / 24 HOUR NUMBER:

CHEMTREC - (800) 424-9300
CONTRACT# 16160

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PREPAID

Consigned To: **78681**

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FILE) OF SAP BOL REQ'D WITH EVERY ORDER.

FOR FREIGHT COLLECT SHIPMENTS:
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X
 (Signature of Consignor)

Pcs.	Product Name		Product Code	Weight Lbs.	Batch No. - Bin No.
1	Deoxidizer LNC (275 gal Bin) Batches: 880128151 = 1		3850010	3445	
PKGS.	HM	Kind of Pkg.	Description of Articles, Special Marks and Exceptions		Lbs.
See Page 1	TOTAL PACKAGES		IF DAMAGE OR DELAYS OCCUR, CONTACT:		TOTAL WEIGHT ➡

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☐ C of A

☐ SPCL REQMTS

OK

Date

PLACARDS



U.S. Department
of Transportation

**Pipeline and Hazardous
Materials Safety
Administration**

1200 New Jersey Avenue SE
Washington, DC 20590

DEC 11 2012

Mr. Raymond Kasey
Railroad Regulatory Safety Services
7500 Masonville Drive
Falls Church, VA 22042-3520

Ref. No.: 12-0181

Dear Mr. Kasey:

This responds to your August 1, 2012 letter requesting clarification of the Hazardous Materials Regulations (HMR; 49 CFR Parts 171-180) applicable to the proper classification of a marine pollutant, in addition to carrier verification requirements.

In your letter, you state that your client, a class one and three railroad carrier, recently accepted a shipping paper for a bulk package identified as "p-Dodecylphenol" with no other description listed on the shipping paper. As an attachment, you provide a material safety data sheet (MSDS) for a product called "Lubrizol 9222R" which lists its hazardous ingredient as "p-Dodecylphenol, CAS No. 74499-35-7, Percentage (by wt.) from 1 to 4.9 percent." You further indicate that Dodecylphenol is listed in Appendix B to § 172.101 with a "PP" identifying the material as a severe marine pollutant. Your questions are paraphrased and answered below.

- Q1: You ask whether "Lubrizol 9222R," according to the attached MSDS, meets the definition of a (severe) marine pollutant? Additionally, you ask if a material is considered a listed marine pollutant if the technical name of the material does not specifically appear in the table of marine pollutants (§ 172.101, Appendix B) but a synonym does?
- A1: In accordance with § 173.22, it is the shipper's responsibility to properly classify and describe a hazardous material. This Office does not perform that function. Under the HMR, a material is considered a listed marine pollutant if either its technical name or a synonym appears in the table of marine pollutants. Furthermore, if the listed marine pollutant is in a mixture or solution, the shipper should consult the definition of a marine pollutant in § 171.8. In order to be considered a marine pollutant, the listed substance must be in a concentration of ten percent by weight, or if a severe marine pollutant, be in a concentration of one percent by weight.

Therefore, if: (1) p-Dodecylphenol is a synonym to Dodecylphenol; and (2) the concentration of Dodecylphenol in the solution is at least one percent by weight, then the answer would be yes and "Lubrizol 9222R" would appear to be a marine pollutant. However, as stated above, it is the shipper's responsibility to properly classify and describe a hazardous material.

Q2: You ask what is the required shipping name when a product shipped under a trade name is offered for transportation and contains the chemical p-Dodecylphenol in a bulk package at or above the concentration specified in Appendix B of the Hazardous Materials Table (HMT)?

A2: Please note that marine pollutants listed in Appendix B are not necessarily listed by name in the § 172.101 HMT. If a marine pollutant not listed by name or by synonym in the § 172.101 HMT meets the definition of any hazard Class 1 through 8, you must determine the class and division of the material in accordance with § 173.2a of the HMR. Furthermore, you must also select the most appropriate hazardous material description and proper shipping name.

If a marine pollutant not listed by name or by synonym in the § 172.101 HMT does not meet the definition of any Class 1 through 8, you must offer it for transportation under the most appropriate of the following two Class 9 entries: "Environmentally hazardous substances, liquid, n.o.s.," UN3082, or "Environmentally hazardous substances, solid, n.o.s.," UN3077. In this specific case, it would appear that the former (along with a technical name) is the appropriate proper shipping name.

Q3: You ask whether a carrier may rely on information provided by the manufacturer (or previous offeror) and in good faith rely on that information when transporting those hazardous materials?

A3: The answer is yes. Although the HMR place primary responsibility on the shipper, or "person who offers," to properly class and communicate the hazard of a hazardous material, a carrier may be held responsible for non-compliance with applicable requirements to the extent that the carrier knows, or should have known, that a material offered for transportation is hazardous. A carrier may rely on information provided by the shipper, unless the carrier knows, or a reasonable person, acting in the circumstances and exercising reasonable care, would have knowledge that the information provided is incorrect.

I trust this satisfies your inquiry. Please contact us if we can be of further assistance.

Sincerely,



T. Glenn Foster
Chief, Regulatory Review and Reinvention Branch
Standards and Rulemaking Division

Railroad Regulatory Safety Services

7500 Masonville Drive
Falls Church, Virginia 22042-3520
Telephone 202-230-9563
or 703-560-0229

Nickels
§171.1
§172.101
§173.22
Applicability
12-0181

August 1, 2012

Mr. Charles Betts,
Director, Standards and Rulemaking Division
Pipeline and Hazardous Materials Safety Administration
1200 New Jersey Avenue, S.E.
Washington, D.C. 20590

Dear Mr. Betts:

I represent a class one and three railroad and need clarification concerning the obligations of carriers when presented with a shipping paper listing a chemical that is not readily identifiable in the hazardous materials table. Recently, carriers accepted a shipping paper for a bulk package identified as p-dodecylphenol. There was no other description listed on the shipping paper offered or accompanying the shipment. Neither "p" nor plain dodecylphenol is listed in the Haz Mat Table in 49 CFR 172.101.

I have several questions as follows.

While it is incumbent on the shipper to know what the constituents are of the product being shipped, would the requirement of 49 CFR 172.101(c)(14) apply to an "m" (meta), "o" (ortho), or "p" (para), preceding the chemical name exclude it from being a marine pollutant (MP) or further include it as well if not listed in the Appendix B along with the MP chemical?

My second question is, "when an offeror provides a carrier with a shipping description that is not readily identifiable as a regulated hazardous material, what obligation, if any, does a carrier have other than transport the bulk package from origin to destination?"

When I read further, however, I now find that according to Appendix B of the HMT, dodecylphenol is listed as a severe marine pollutant in certain concentrations, though I reiterate again that it is not listed in the HMT.

My third question is, "In the absence of an additional description on the shipping paper, which list the concentration of p-dodecylphenol, can I, as a carrier reasonably assume that the bulk package does not contain a marine pollutant and transport it in accordance with the description I received from the offeror?"

My fourth question is, "When a product shipped under a trade name is offered for transportation and contains the chemical p-dodecylphenol in a bulk package at or above the concentration

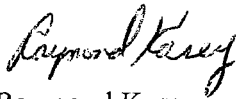
specified in Appendix B of the Hazardous Materials Table, what is the required proper shipping name if any?"

I have enclosed the MSDS for this product for your edification of the specific product to which I am referring. As you can see, the shipper offered an MSDS that indicates p-dodecylphenol as being between 1 to 4.9% by weight of the product. You will also note in your reading that block 14 lists the product as non-regulated in all countries.

My fifth question concerns a carriers' good faith determination in assessing whether a product offered by a shipper can always be accepted in good faith, just as offered, or does acceptance of any material incur other obligations not listed in the HMR?

Your assistance in this matter is appreciated.

Sincerely,

A handwritten signature in cursive script, appearing to read "Raymond Kasey".

Raymond Kasey

3 enclosures



Prepared according to 29CFR 1910.1200.

1	Chemical Product and Company Identification
---	---

*The Lubrizol Corporation
29400 Lakeland Boulevard
Wickliffe, Ohio 44092
Tel: (440) 943-4200*

Product Trade Name LUBRIZOL® 9222R
CAS Number Not applicable for mixtures.
Synonyms None.
Generic Chemical Name Mixture.
Product Type Multipurpose.
Preparation/Revision Date 25 May 2012
Transportation Emergency Phone No. FOR TRANSPORT EMERGENCY call CHEMTREC: (+1) 703-527-3887 (outside the U.S.) 1-800-424-9300 (in the U.S.)
MSDS No. 31663020-3022415-4032271-102103

2	Hazards Identification
---	------------------------

Appearance Dark brown liquid.
Odor Mild
Principal Hazards Warning.

- Causes respiratory tract irritation.
- Repeated swallowing of this material may cause adverse reproductive effects based on animal data.
- May cause eye irritation.

See Section 11 for complete health hazard information.

3	Composition/Information on Ingredients
---	--

Hazardous Ingredients

Comp	CAS No.	Percentage (by wt.)	Cheltingen
p-Dodecylphenol	74499-35-7	From 1 to 4.9 percent	N/E

(N/E) - None established

4	First Aid Measures
---	--------------------

Eyes Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical attention.
Skin Wash with soap and water. Get medical attention if irritation develops. Launder contaminated clothing before reuse.
Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor.
Oral DO NOT INDUCE VOMITING. Get immediate medical attention.
Additional Information If exposed or concerned: Get medical attention.

5	Fire Fighting Measures
---	------------------------

Flash Point 164 °C, 327.2 °F PMCC (Typical)
Extinguishing Media CO₂, dry chemical, or foam. Water can be used to cool and protect exposed material.
Firefighting Procedures Recommend wearing self-contained breathing apparatus. Water may cause splattering.
Unusual Fire & Explosion Hazards See section 10 for additional information.

6	Accidental Release Measures
---	-----------------------------

Spill Procedures Personal Protective Equipment must be worn, see Personal Protection Section for PPE recommendations. Ventilate area if spilled in confined space or other poorly ventilated areas. Prevent entry into sewers and waterways. Pick up free liquid for

LUBRIZOL® 9222R

recycle and/or disposal. Residual liquid can be absorbed on inert material.

7	Handling and Storage
---	-----------------------------

Pumping Temperature	75 °C, 167 °F
Maximum Handling Temperature	85 °C, 185 °F
Handling Procedures	Keep containers closed when not in use. Avoid breathing dust, fume, gas, mist, vapors or spray. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Launder contaminated clothing before reuse. Empty container contains product residue which may exhibit hazards of product. Dispose of packaging or containers in accordance with local, regional, national and international regulations.
Maximum Storage Temperature	45 °C, 113 °F
Storage Procedures	Store locked up. See section 10 for incompatible materials.
Maximum Loading Temperature	Not determined.

8	Exposure Controls/Personal Protection
---	--

Exposure Limits	None established
Other Exposure Limits	Contains mineral oil. Under conditions which may generate mists, observe the OSHA PEL of 5 mg per cubic meter, ACGIH TWA of 5 mg per cubic meter.
Engineering Controls	Use local exhaust ventilation to control mists or vapors. Additional ventilation or exhaust may be required to maintain air concentrations below recommended exposure limits.
Gloves Procedures	Use nitrile or neoprene gloves.
Eye Protection	Safety Glasses.
Respiratory Protection	Use NIOSH/MSHA approved full face respirator with a combination organic vapor and high efficiency filter cartridge if the recommended exposure limit is exceeded. Use self-contained breathing apparatus for entry into confined space, for other poorly ventilated areas and for large spill clean-up sites. Consult with an industrial hygienist to determine the appropriate respiratory protection for your specific use of this material. A respiratory protection program compliant with all applicable regulations must be followed whenever workplace conditions require the use of a respirator.
Clothing Recommendation	Gloves, coveralls, apron, boots as necessary to minimize contact. Launder contaminated clothing before reuse.

9	Physical and Chemical Properties
---	---

Flash Point	164 °C, 327.2 °F PMCC (Typical)
Upper Flammable Limit	Not determined.
Lower Flammable Limit	Not determined.
Autoignition Point	Not determined.
Explosion Data	Material does not have explosive properties.
Vapor Pressure	Not determined.
pH	Not determined.
Specific Gravity	1.13 (15.6 °C)
Bulk Density	9.42 Lb/gal, 1.13 Kg/L
Water Solubility	Insoluble.
Percent Solid	Not determined.
Percent Volatile	Not determined.
Volatile Organic Compound	Not determined.
Vapor Density	Not determined.
Evaporation Rate	Not determined.
Odor	Mild
Appearance	Dark brown liquid.
Viscosity	22565.2 Centipoise (20 °C) 13553 Centipoise (25 °C) 5000 Centistokes (40 °C) 300 Centistokes (100 °C) 50 Centipoise (169 °C)
Odor Threshold	Not determined.
Boiling Point	Not determined.
Pour Point Temperature	-9 °C, 16 °F
Melting / Freezing Point	Not determined.

The above data are typical values and do not constitute a specification. Vapor pressure data are calculated unless otherwise noted.

10	Stability and Reactivity
----	---------------------------------

Stability	Material is normally stable at moderately elevated temperatures and pressures.
Decomposition Temperature	Not determined.

LUBRIZOL® 9222R

Incompatibility	Oxidizing agents.
Polymerization	Will not occur.
Thermal Decomposition	Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion. Under combustion conditions, oxides of the following elements will be formed: calcium, sulfur.
Conditions to Avoid	Not determined.

11	Toxicological Information
----	----------------------------------

– ACUTE EXPOSURE –

Eye Irritation	May cause eye irritation. Does not meet Canadian D2B or EU R36 criteria. Based on data from components or similar materials.
Skin Irritation	Not expected to be a primary skin irritant. Based on data from components or similar materials. Prolonged or repeated skin contact as from clothing wet with material may cause dermatitis. Symptoms may include redness, edema, drying, and cracking of the skin.
Respiratory Irritation	Nose, throat and lung irritant. Based on data from components or similar materials.
Dermal Toxicity	The LD50 in rabbits is > 2000 mg/Kg. Based on data from components or similar materials.
Inhalation Toxicity	No data available to indicate product or components may be a toxic inhalation hazard.
Oral Toxicity	The LD50 in rats is > 10,000 mg/Kg. Based on data from components or similar materials.
Dermal Sensitization	No data available to indicate product or components may be a skin sensitizer.
Inhalation Sensitization	No data available to indicate product or components may be respiratory sensitizers.

– CHRONIC EXPOSURE –

Chronic Toxicity	This product contains para-dodecylphenol. Rats given high, repeated daily doses of para-dodecylphenol by oral intubation experienced effects on a number of organs including adrenal, thyroid, liver, ovary, testes, bone marrow and blood cell formation. The relevance of these effects to humans is uncertain.
Carcinogenicity	This product contains mineral oils which are considered to be severely refined and not considered to be carcinogenic under IARC. All of the oils in this product have been demonstrated to contain less than 3% extractable; by the IP 346 test.
Mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Reproductive Toxicity	This product contains para-dodecylphenol. Rats given high, repeated daily doses of para-dodecylphenol by oral intubation experienced adverse reproductive effects. The relevance of these effects to humans is uncertain.
Teratogenicity	This product contains para-dodecylphenol. Pregnant rats given high, repeated daily doses of para-dodecylphenol by oral intubation gave birth to pups with cleft palate and skeletal malformations. The relevance of these effects to humans is uncertain.

– ADDITIONAL INFORMATION –

Other	No other health hazards known.
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12	Ecological Information
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– ENVIRONMENTAL TOXICITY –

Freshwater Fish Toxicity	The acute LC50 is > 1000 mg/L based on component data.
Freshwater Invertebrates Toxicity	The acute EC50 is > 1000 mg/L based on component data. Chronic effects expected at < 1 mg/L based on component data.
Algal Inhibition	Not determined.
Saltwater Fish Toxicity	Not determined.
Saltwater Invertebrates Toxicity	Not determined.
Bacteria Toxicity	The acute EC50 is 100 - 1000 ppm based on component data.
Miscellaneous Toxicity	Not determined.

– ENVIRONMENTAL FATE –

Biodegradation	At least 25% of the components in this product show limited biodegradation based on OECD 301-type test data. At least 25% of the components in this product show moderate biodegradation based on OECD 302-type test data.
Bioaccumulation	25% or greater of the components display no potential to bioconcentrate.
Soil Mobility	Not determined.

13	Disposal Considerations
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Waste Disposal	This material, if discarded, is not a hazardous waste under RCRA Regulation 40 CFR 261. Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations.
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14	Transport Information
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ICAO/IATA I	Not regulated.
ICAO/IATA II	Not regulated.

LUBRIZOL® 9222R

IMDG	Not regulated.
IMDG EMS Fire	Not applicable.
IMDG EMS Spill	Not applicable.
IMDG MFAG	Not applicable.
MARPOL Annex II	Not determined.
USCG Compatibility	Not determined.
U.S. DOT Bulk	Not regulated.
DOT NAERG	Not applicable.
U.S. DOT (Intermediate)	Not regulated.
U.S. DOT Intermediate NAERG	Not applicable.
U.S. DOT Non-Bulk	Not regulated.
U.S. DOT Non-Bulk NAERG	Not applicable.
Canada	Not regulated.
Mexico	Not regulated.
Bulk Quantity	85000 KG, 187391 lbs.
Intermediate Quantity	11000 KG, 24251 lbs.
Non-Bulk Quantity	400 KG, 882 lbs.

Review classification requirements before shipping materials at elevated temperatures.

15	Regulatory Information
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– Global Chemical Inventories –

USA	All components of this material are on the US TSCA Inventory or are exempt.
Other TSCA Reg.	None known.
EU	All components are in compliance with the EC Seventh amendment Directive 92/32/EEC.
Japan	All components are in compliance with the Chemical Substances Control Law of Japan.
Australia	All components are in compliance with chemical notification requirements in Australia.
New Zealand	All components are in compliance with chemical notification requirements in New Zealand.
Canada	All components are in compliance with the Canadian Environmental Protection Act and are present on the Domestic Substances List.
Switzerland	All components are in compliance with the Environmentally Hazardous Substances Ordinance in Switzerland.
Korea	All components are in compliance in Korea.
Philippines	All components are in compliance with the Philippines Toxic Substances and Hazardous and Nuclear Wastes Control Act of 1990 (R.A. 6969).
China	All components of this product are listed on the Inventory of Existing Chemical Substances in China.
Taiwan	All components of this product are listed on the Taiwan inventory.

– Other U.S. Federal Regulations –

SARA Ext. Haz. Subst.	This product does not contain greater than 1.0% of any chemical substance on the SARA Extremely Hazardous Substances list.								
SARA Section 313	This product does not contain greater than 1.0% (greater than 0.1% for carcinogenic substance) of any chemical substances listed under SARA Section 313.								
SARA 311 Classifications	<table border="1"> <tr> <td>Acute Hazard</td><td>Yes</td></tr> <tr> <td>Chronic Hazard</td><td>Yes</td></tr> <tr> <td>Fire Hazard</td><td>No</td></tr> <tr> <td>Reactivity Hazard</td><td>No</td></tr> </table>	Acute Hazard	Yes	Chronic Hazard	Yes	Fire Hazard	No	Reactivity Hazard	No
Acute Hazard	Yes								
Chronic Hazard	Yes								
Fire Hazard	No								
Reactivity Hazard	No								
CERCLA Hazardous Substances	None known.								

– State Regulations –

Cal. Prop. 65	This product contains the following chemical(s) known to the state of California to cause cancer and/or birth defects based on maximum impurity levels of components: < 0.01 ppm Ethyl benzene, CAS no. 100-41-4 < 0.01 ppm Naphthalene, CAS no. 91-20-3 < 0.5 ppm cadmium < 0.5 ppm arsenic < 0.5 ppm lead
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– Product Registrations –

U.S. Fuel Registration	Not applicable.
Finnish Registration Number	Not Registered
Swedish Registration Number	Not Registered
Norwegian Registration Number	Not Registered
Danish Registration Number	Not Registered
Swiss Registration Number	Not Registered
Italian Registration Number	Not Registered

– Other / International –

LUBRIZOL® 9222R

Miscellaneous Regulatory Information

Not determined.

16	Other Information
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US NFPA Codes

Health	Fire	Reactivity	Special
2	1	0	N/E

(N/E) - None established

HMIS Codes

Health	Fire	Reactivity
2*	1	0

Precautionary Labels

Warning.

- Causes respiratory tract irritation.
- Repeated swallowing of this material may cause adverse reproductive effects based on animal data.
- May cause eye irritation.

Revision Indicators

Section: 12 Accumulation.

Changed: 25 May 2012

Section: 12 Saltwater invertebrate toxicity.

Changed: 25 May 2012

As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of this product. Information contained herein is believed to be true and accurate but all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with all applicable federal, state, and local regulations remains the responsibility of the user.

CrysCoat® 747

Version 1.9

Print Date 04/23/2015

Revision Date 07/22/2014

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : CrysCoat® 747
MSDS Number : REL_3838

Company : Chemetall US, Inc.
675 Central Avenue
New Providence, NJ 07974

Telephone : +18005264473
Telefax : +19084644658
Emergency telephone no : CHEMTREC - 800-424-9300

SECTION 2. HAZARDOUS COMPONENTS INFORMATION

Component	CAS-No.	Weight percent
Phosphoric acid	7664-38-2	5.00 - 10.00
Trade Secret Registry	735517-5097P	1.00 - 5.00
Diethylene Glycol Butyl Ether	112-34-5	1.00 - 5.00
Hydrofluoric Acid	7664-39-3	1.00 - 5.00
Trade Secret Registry	735517-5001P	1.00 - 5.00
Trade Secret Registry	735517-5011P	1.00 - 5.00

Unidentified ingredients are considered not hazardous under Federal Hazard Communication Standard (29CFR 1910.1200).

SECTION 3. HAZARDS IDENTIFICATION**Emergency Overview**

Form : liquid
Colour : yellow
Odour : surfactant
Hazard Summary : Causes severe burns. Liquid or vapor causes burns which may be delayed. Harmful by inhalation and if swallowed.

Route(s) of Entry	Inhalation	Skin	Ingestion
	yes	yes	yes

Carcinogenicity:

NTP No substance in this product is listed by NTP as a carcinogen
IARC No substance in this product is listed by IARC as a carcinogen
OSHA No substance in this product is regulated by OSHA as a carcinogen

CrysCoat[®] 747

Version 1.9

Revision Date 07/22/2014

Print Date 04/23/2015

SECTION 4. FIRST AID MEASURES

- Inhalation : If inhaled, remove to fresh air. If symptoms persist, call a physician. If breathing is irregular or stopped, administer artificial respiration.
- Skin contact : Wash off immediately with plenty of water for at least 15 minutes. Pay particular attention to skin under nails. Take off contaminated clothing and shoes immediately. First treatment with calcium gluconate paste. Get medical attention immediately if irritation develops and persists
- Eye contact : Rinse immediately with plenty of water for at least 15 minutes. Keep eye wide open while rinsing. Get medical attention immediately
- Ingestion : Rinse mouth. Give several glasses of water to drink followed by milk of magnesia. Never give anything by mouth to an unconscious person. Get medical attention immediately

SECTION 5. FIREFIGHTING MEASURES

- Flash point : Note: does not flash
- Lower explosion limit : Note: Not applicable.
- Upper explosion limit : Note: Not applicable.
- TDG Flammability Class : NONE
- Suitable extinguishing media : Dry chemical
Carbon dioxide (CO₂)
Foam
Water spray
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
- Further information : Use water spray to cool unopened containers.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Ensure adequate ventilation.
- Methods for cleaning up : Ventilate area.
Neutralize with lime milk or soda and flush with plenty of water.

CrysCoat® 747

Version 1.9

Print Date 04/23/2015

Revision Date 07/22/2014

Clean up with inert absorbant material.
Keep in suitable, closed containers for disposal.
Flush with plenty of water.

Additional advice : Never return spills in original containers for re-use.

SECTION 7. HANDLING AND STORAGE**Handling**

Handling : Use only with adequate ventilation.
Add this product to surface of solution slowly to avoid spattering
Do not add large amounts of product to solution at any one time.

Storage

Requirements for storage areas and containers : Keep containers dry and tightly closed to avoid moisture absorption and contamination.
Store indoors in a cool, well-ventilated place

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Component	ACGIH TLV (TWA)	OSHA PEL (TWA)
Phosphoric acid	1.000000 mg/m3	1.000000 mg/m3
Trade Secret Registry	NONE	NONE
Diethylene Glycol Butyl Ether	NONE	NONE
Hydrofluoric Acid	3 ppm ceiling	3 ppm
Trade Secret Registry	NONE	NONE
Trade Secret Registry	5.000000 mg/m3 soluble compounds as Mo	5.000000 mg/m3 soluble compounds as Mo

Eye protection : Chemical resistant goggles must be worn.
Face-shield

Hand protection : Impervious gloves

Skin and body protection : Complete suit protecting against chemicals

Respiratory protection : If the occupational exposure limits cannot be met, suitable respirator equipment shall be worn.

Hygiene measures : Avoid contact with skin, eyes and clothing.

CrysCoat® 747

Version 1.9

Print Date 04/23/2015

Revision Date 07/22/2014

Wear suitable gloves and eye/face protection.
Wear suitable protective clothing.
Wash hands before breaks and immediately after handling the product.
Provide adequate ventilation.
Do not inhale fumes.
Keep away from food and drink.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

pH	: 2.5 - 3.5
Freezing point	: -1.11 °C (30.00 °F)
Boiling point/boiling range	: Note: no data available
Vapour pressure	: Note: no data available
Bulk density	: 9.5500 lb/gal
Water solubility	: Note: completely soluble
Relative density	: 1.146
Evaporation rate	: 1 Note: (Water =1) Less than 1

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid	: Direct sources of heat.
Materials to avoid	: Bases Warning! Do not use together with other products. May release dangerous gases (chlorine). Avoid prolonged contact of concentrate with glass, ceramic, or concrete.
Hazardous decomposition products	: Carbon dioxide (CO ₂) Carbon monoxide Nitrogen oxides (NO _x) Hydrogen, by reaction with metals Traces of Fluorides Oxides of phosphorus

SECTION 11. TOXICOLOGICAL INFORMATION

CrysCoat® 747

Version 1.9

Print Date 04/23/2015

Revision Date 07/22/2014

Toxicity: : Mixture; Not Determined.

Acute oral toxicityPhosphoric acid : LD50, rat
Dose: 1,530.000000 mg/kgDiethylene Glycol Butyl Ether : LD50, rat
Dose: 6,560.000000 mg/kg**Acute toxicity (other routes of administration)**Hydrofluoric Acid : LD50, rat, Intraperitoneal
Dose: 25.000000 mg/kg**SECTION 12. ECOLOGICAL INFORMATION**

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Advice on Disposal : Refer to all federal, provincial, state and local regulation prior to disposition of container and unused contents by reuse, recycle or disposal.

SECTION 14. TRANSPORT INFORMATION

Refer to Bill of Lading.

SECTION 15. REGULATORY INFORMATION

TSCA Status : All components of this material comply with US TSCA requirements.

SARA 313 Components : Diethylene Glycol Butyl Ether CAS-No. 112-34-5
: Hydrofluoric Acid CAS-No. 7664-39-3CERCLA Reportable Quantity : Phosphoric acid 5,000 Pounds
: Hydrofluoric Acid 100 Pounds

California Prop. 65 : N.D

NFPA : 3 0 0 Corrosive Acid

HMIS : 3 0 0 H

CrysCoat® 747

Version 1.9

Print Date 04/23/2015

Revision Date 07/22/2014

SECTION 16. OTHER INFORMATION

Further information

Chemetall US, Inc. warrants that the products described herein will conform with its published specifications. The products supplied by Chemetall and information related to them are intended for use by buyers having necessary industrial skill and knowledge. Buyers should undertake sufficient verification and testing to determine the suitability of the Chemetall materials for their own particular purpose. Since buyer's conditions of use of products are beyond Chemetall's control, Chemetall does not warrant any recommendations and information for the use of such products. CHEMETALL DISCLAIMS ALL OTHER WARRANTIES INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR ANY PARTICULAR PURPOSE IN CONNECTION WITH THE USE OF ITS PRODUCTS.