REPORT OF CALL

c for T. P. Norris
J. E. Walsh
KC-File
NF-File

Calidria ASBESTOS

UNION CARBIDE CORPORATION
P.O. Box 579 Niagara Falls, N.Y. 14302

R 9 1973
UCC - CALIDRIA
KING CITY, CA.

By H. B. Rhodes

Date 3/16/73

Full Name	Dow Chemical Midland, Michigan	Interviewed	
Address	(517) 636-4306	Mr. Ed Shallow	
Mfrs. of	Durakane Resin Mfg.	(Telecon)	

PLAINTIFF'S EXHIBIT
UC-617

OBJECTIVE

Check on the status of the cut-down version of "The Safe Use of RG-244" for inclusion in their trade letter.

OBSERVATIONS

Mr. Shallow told me that since our legal people had to clear the report, he decided to run it past their own lawyers. This was holding it up beyond the publication deadline so it will have to wait for the next edition in June.

I had gotten the impression from a previous conversation that Mr. Shallow had gotten concerned re toxicology as a result of the latest wave of publicity that has occurred since the SPI. He may be having second thoughts about asbestos.

It was left that he would mail me their more abbreviated version for review as soon as he got it approved. If we do not get it by April 30, he should be recontacted.

ACTION

HBR If no response by April 30, contact.

Typed 4/2/73
cjb

REPORT OF CALL

Calidria asbestos

RECEIVED
APR 16 1973
UCC - CALIDRIA
KING CITY, CA.

cc for T. P. Norris
J. E. Walsh
KC-File
NF-File

UNION CARBIDE CORPORATION
P.O. Box 579 Niagara Falls, N.Y. 14302

By H. B. Rhodes

Date 4/12/73

Full Name	Dow Chemical Designed Products Div.	Interviewed	
Address	Midland, Michigan	Mr. Ed Shallow	
Mfrs. of	Epoxy and Polyester Resins	(Telecon)	(517) 636-4306

OBJECTIVES

1. Learn status of "Safe Use of 244" publication.

2. Learn Dow location to contact to get "Calidria" products included in the Dow epoxy literature.

OBSERVATIONS

The 244 article is still in their legal department. He will check with them.

The key man for epoxy applications is Ron Yocum, the area laboratory manager located at Freeport, Texas. All epoxy and Derakane resin technology is handled at Freeport.

ACTION

GLD Suggest you contact Yokum by phone to try to get them interested and started.

Typed 4/12/73
cjb

REPORT OF CALL

G. L. Dickson - NF
T. P. Norris - Chicago
H. B. Rhodes - Niagara Falls
W. C. Thurber - NY 38
KC Files
NF Files

Calidria

DEC 2 1974

UNION CARBIDE CORPORATION

P.O. Box 579 Niagara Falls, N.Y. 14302

By J. E. Walsh

Date 11/19/74

Full Name	Dow Chemical	Interviewed
Address	Freeport, Texas	John Flickinger, Epoxy Resins Tech Service
Mfrs. of	Polyester	Tom Anderson, Polyester Resins Tech Service

Call made following up 144 sample sent to Flickinger.

The sample was for shelf purposes as Flickinger advised that they had begun to get requests from their customers to see if Dow could or would incorporate it into their epoxies, undoubtedly to avoid the OSHA requirements. Nothing has been done with the sample so far, but after reviewing with John the 144 story, he at least is a little more knowledgeable about what it can and can't do. Asked if I could talk with someone in their polyester group, and John went down the hall and got Anderson who advised that it was opportune that I called because they had a problem that they thought we should act on right away. Dow has for the last year or so recommended our 244 in preference to X to thicken their 470 resin. One of their customers had just been OSHA inspected, and were advised by the inspector that they could not use 244. Obtained the info from Anderson on his customer which was phoned to GLD's secretary.

GLD Please let me know how you make out with Demoranville or Desjardines in Fall River so I can feed it back to Anderson as Dow doesn't want to continue recommending a material that OSHA will not let their customers use. They don't want to, but if our 244 becomes too much of a hassle, they will go back to suggesting Brand X. Discussed the toxicology issue in detail with Anderson, and he feels that both Dow and their customers can safely use it as he has passed our Safe use of RG-244 bulletin around to both his plant safety people and to customers he has recommended it to.

HBR Anderson asked that I send him about 30 additional copies of the brochure as he is working from xerox copies now. Apparently, it satisfied his plant people and customers. Has our law department released it yet? If not, can we redesign something to mail to Dow on our letterhead? I am afraid that if we don't come back quickly with something positive, we might lose our biggest booster.

I advised Anderson that I would send him a toxicology packet including the latest info I had on 244. Anderson did in fact confirm that Dow had a ban on asbestos in their plant. Anderson originally fought the battle as the ban was supposed to include FRP materials containing 244, but he was able to get it revised to only bagged

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asbestos. Discussed the Vesca problem and Anderson advised that right now, being as they had an alternative, he thought that they would be best to take it. If it got to be too much of a hassle, he could jump in, as he knows Don Chandler at Vesca. Asked about 244 chemical resistance vs Brand X and was advised by Tom, who is their corrosion specialist, that the materials have never been tested side by side, but the available evidence indicates that the lower the thix agent the better chemical resistance. This is why they went to 244 to begin with and would like to stay with it.

JW Phone Anderson with the results of our contact with their Fall River, Mass. customer and what we can supply regarding the safe use of 244.

REPORT OF CALL

Calidria Asbestos

FEB 3 1975

cc for: R. E. Byrne - Niagara Falls
T. P. Norris - Chicago
W. C. Thurber - NY 38
KC Files
NF Files

UNION CARBIDE CORPORATION
P.O. Box 579 Niagara Falls, N.Y. 14302

By J. E. Walsh

Date 1-29-75

Full Name DOW Chemical	Interviewed
Address Russellville, Arkansas	Bill Logan, Plant Engineer
Mfrs. of Chlorine Cells	

Call made following up recent new order for a pallet of RG-244.

DOW has made the switch from crocidilite asbestos to 244 because of toxicology. Now that is a switch. With all the publicity linking crocidilite to mesothelioma, their corporate safety people made the decision to go to a less hazardous asbestos type. Upon the recommendation of their Freeport, Texas people, 244 was chosen, as their tests showed it to be the closest to crocidilite for chemical resistance. The silicas, the DOW people feel, are poorer than any type of asbestos for chemical resistance. The dwindling availability in the U. S. of crocidilite was also another contributing factor. The 244 will be mixed with a DOW vinyl ester resin at a 3% level to make an adhesive for joining parts of the chlorine cell structures this plant makes. Crocidilite usage was about 5 M lbs/month, but Logan expects the 244 to be about 20% more efficient. Suggested Wonder States in Little Rock as a local 244 source, but Bill said they no longer do business with them, as they had a bad experience with them last year when chopped glass was short. 244 usage will begin as soon as their crocidilite supply is exhausted, and volume should be in the 3-4 M lbs/month range on a direct basis -- not bad for an unplanned-for account. Bill has not reviewed the toxicology info I sent him last month, but expects to do so within the next couple of weeks, and will give me a call if he has any questions.

JW A new stop on Little Rock trips.

REPORT OF CALL

Calidria asbestos

cc for: R. E. Byrne - Niagara Falls
T. P. Norris - Chicago
W. C. Thurber - NY 38
KC Files
NF Files

UNION CARBIDE CORPORATION
P.O. Box 579 Niagara Falls, N.Y. 14302

By J. E. Walsh

Date 3-5-75

Full Name	DOW Chemical Company	Interviewed	
Address	Plaquemine, Louisiana	Ray Mac, Purchasing Agent	
Mfrs. of	Organic Chemicals	Steve Richardson, Manager, Chlorine Cell Service	

Call made at this new DOW location which placed a 2 pallet and 10 bag RG-244 order in January.

This plant is a huge DOW operation, and most likely supports the town of Plaquemine. After looking at this glamorous potential, it kind of went downhill. Mac advised that he thought the 244 usage would only amount to about 1000 lbs this year, and he suspected its use to be in the chlorine cell area as a crocidilite replacement. Discussed the 244 success story, toxicology, and left Mac with our brochure, price list, and my card. Mac suggested that I get together with Richardson who would be more familiar on what and how much 244 might be used. I called Steve on the phone and he came up front to the lobby for a short talk. The 244 usage was for thickening Derakane resin for patch work on existing vertical chlorine cells. Steve thought it would probably be his last requirement for the material, as they are phasing out cell production here and transferring it all to their Jacksonville, Arkansas plant. All future cell production work will be done at Arkansas, and any 244 requirement here would be small and for repair of existing cells.

JEW

No further calls needed at present at this DOW location.

METALS DIVISION

CUSTOMER CALL REPORT

CUSTOMER & LOCATION: DOW Chemical Company, Russellville, Arkansas, 501-968-3404

INDUSTRY CLASSIFICATION: Chlorine Cells

SALESMAN: J. E. Walsh

REGION: Southern

DATE OF CALL: 1-13-76

PRODUCTS DISCUSSED:

Cr	Mn	Spec.	Si	CaC_2	W	V	Asb.	Other:
☐	☐	☐	☐	☐	☐	☐	☒	

RECEIVED
JAN 21 1976

PERSONS INTERVIEWED: Jackie Pledger, Purchasing Agent
Don Hannigan, Unit Manager
Bill Logan, Engineer

CALL OBJECTIVE: Call made after discovering at Wonder States Industries, our distributor, that this 244 account was discontinuing its use.

RESULTS OF CALL: Started with Pledger and learned that Hannigan had advised him that they would no longer be using asbestos after this month and not to reorder any. There is no quality problem, as the 244 has been working fine for them. The problem is the word "asbestos and Hannigan's desire to get all asbestos types out of their plant. Pledger advised that was about all he could do for me, as he was under Hannigan's wing, and any chance for appeal would have to be through him. Got to talk with Hannigan and determined that they use both crocidolite and 244 and their objective is to get rid of both, as they don't want to get involved with medical exams and the record keeping required under the OSHA regs. They are looking at glass beads, chopped glass, and several other alternatives now, but so far nothing has worked out. Discussed the possibility of having a compounder add the 244 to the resin for them and supply it already thixed, and this route appealed to Don. He is not opposed to asbestos per se, nor does he believe the amount they use is a health hazard for his employees; his main concern is living up to the possible strict interpretation of the regulation. The pre-thixed route gives him an out that still allows him to use 244, which he prefers to do. Don said he would discuss the outside thixing with Don Logan, his man in charge of formulation and get back to me on what percentage of 244 they would need per 55 gallon drum. I advised that I would locate a compounder to do the job for them and get them both together to work out the details.

FOLLOW-UP ACTION REQUIRED:

JEW -- Talk with Logan and then find a compounder.

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R. L. Shcult . J. E. Lenahan

METALS DIVISION

CUSTOMER CALL REPORT

CUSTOMER & LOCATION Dow Chemical, Freeport, Texas

INDUSTRY CLASSIFICATION Resins R & D

SALESMAN J. E. WALSH REGION SOUTHERN DATE OF CALL 5-4-78

PRODUCTS DISCUSSED:

Cr	Mn	Spec.	Si	CaC_2	W	V	Asb.
☐	☐	☐	☐	☐	☐	☐	☒

Other: _____

PERSONS INTERVIEWED: Tom Anderson, Senior Research Scientist-Corrosion Control

CALL OBJECTIVE: Call made on R & D location of a major vinyl ester resin producer.

RESULTS OF CALL: It had been two years since I had seen Tom so he welcomed the update on where 244 stood in so far as the OSHA regulation was concerned. Unfortunately, there really wasn't anything concrete to hang your hat on that I could tell him and that we were more or less in the same position re the regulation as we were two years ago. Advised that the rewrite or clarification of the regulation was still in the works and, hopefully, would be completed before years end, long overdue from its original target date. Tom says he still recommends 244 over the silicas for their resins whenever a thixotrope has to be used. Tom's work indicates that a thixotrope added to Dow's vinyl esters reduces chemical resistance. However, in order to achieve corrosion resistance in vinyl esters even at the expense of a loss of chemical resistanc 244 outperforms the silicas hands down. The reason Dow does not use 244 Tom claims is that only a certain portion of the vinyl esters require a corrosion control ingredient so rather than get into an internal hassle over asbestos with their own safety people they decided to just show their customers in their literature how to add the corrosion control ingredient if they need it.

FOLLOW-UP ACTION REQUIRED:

COPIES TO: REB: JRL: TPN: WCT: KC-FILE: MF-FILE

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METALS DIVISION - CALIDRIA ASBESTOS

CUSTOMER CALL REPORT

CUSTOMER & LOCATION: Dow Chemical Freeport, Texas

INDUSTRY CLASSIFICATION: R & D

SALESMAN: J.E. Walsh REGION: Southern DATE OF CALL: 2-23-81

ASBESTOS HEALTH & REGULATORY DOCUMENTS PROVIDED:

- ☐ MSDS
- ☐ Health & OSHA Information Blue Book
- ☐ Dust Count Report
- ☐ Other, specify below

PERSONS INTERVIEWED:

Dick Hickman Epoxy Resins Research
Tom Anderson Senior Corrosion Control Fellow
Dale Bertelman Plant Services
Jay Elms Epoxy Coatings Research

CALL OBJECTIVE:

Call made on Dow R & D headquarters for Derakane and epoxy resins.

RESULTS OF CALL: Updated Tom since I last visited here on the latest in the toxicology - regulatory area as he has always been one of our chief promoters of 244 especially in their Derakane line. Tom was most appreciative of the visit and update and arranged audiences with Elms and Hickman to discuss the uses of 244 in their epoxy research and tech service work. Bertelman is anothe key man to see here as he operates out of the plant across the street and is in charge of working up the specs on all off site FRP work. Unfortunately, he was not available today; but he is the man who will be contacted to get any x usage in off site work converted to the proper RG244 product.

FOLLOW-UP ACTION REQUIRED:

COPIES TO: JRL:TPN:JLM: :KC-FILE:NF-FILE NF PERMANENT FILE ☐

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