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Date 08/12/2006
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Test report no.: 76478-2/06

Project no.: 55076478

Ordering party:

RAW Handel und Beratungs GmbH
Grünstraße 5

D-79232 March-Hugstetten

Date of order: 03/05/2006

Scope of examination: External quality control for the **Oil Binder "Elephant Sorb Spezial microfein" type III/R** according to LTwS No. 27 (version of 12/03/1990) [LTwS = Lagerung und Transport wassergefährdender Stoffe = Storage and Transport of Water Pollutants] and extension of validity of the test report no. 22 0977 2 94 (07/12/2000), MPA NRW = Department for Material Testing North Rhine-Westphalia and no. 22 000 797 00 (07/12/2000), MPA NRW

Test sample: Oil binder on the basis of pumice stone

Sample receipt: 25/04/2006

Sample name: Elephant Sorb Spezial microfein

Test results:

- see continuation sheet/sheets -

Accredited Analysis Laboratory DAP-PA-2887.99 in Stuttgart and Halle (Saale).

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Test report no.: 76478/06

1 Sample name

Sample number	Product name
76478-2	Elephant Sorb Spezial microfein

Sample 76478-2



Fig. 1: Front side of the packaging (sample 76478-2)

2 Test results

2.1 Expert report relating to harmlessness in terms of occupational medicine

Concerning the question of the harmlessness in terms of occupational medicine for the use of the oil binder in the event of accidents in connection with mineral oil spills, an expert opinion in the field of occupational health, issued by the "Hygieneinstitut" [Hygiene Institute] of the Ruhr region and dated 26/10/2000, has been submitted.

2.2 Manufacturer information on packaging and identification mark

Marking requirements	76478 (data on packaging)
Identification mark	Transversal bars, olive-coloured
Name of the oil binder	Elephant Sorb Spezial microfein
Base material	Pumice stone
Shelf life	Unlimited
Weight and content	20 litres
Required quantity of oil binder	The content of a sack binds 8 litres
Fine fraction (grain size < 0,125 mm)	-
Requirements in terms of occupational medicine	Safe
Special advice	-
Supplying company with complete address	Specified
Remark pertaining to the transport	-
Remark pertaining to adequate cleaning measures	-
Material safety data sheet	Available
Written guarantee of the manufacturer	Available

2.3 Bulk weight

Parameters	Unit	Result
Bulk weight	g/l or kg/m ³	310
Moisture content*	Weight %	-

* Determination required only for wet oil binders

2.4 Required quantity of oil binder

Parameters	Unit	Result
Quantity of oil binder:		
[g] oil binder / 100 g of oil	g	104
[ml] oil binder / 100 ml of oil	ml	280
1 litre of oil binder absorbs	g of oil	297
Determined value	vol. %	280
1 litre of oil binder absorbs:	litre	0,36
1 kg of oil binder absorbs:	litre	1,150
1 kg of oil binder absorbs:	kilogramme	0,957

Criteria of classification:

Oil binder	required quantity of oil binder
Type I	maximum 350 vol. %
Type II	maximum 600 vol. %
Type III	maximum 350 vol. %

Required quantity of oil binder without consideration of additional quantity (oil retention):

1 litre of oil binder absorbs: 0,31 litres of oil

To determine the required quantity of oil binder, a correction concerning the oil retention capacity was not necessary.

2.5 Oil retention

Parameters	Unit	Result
Additional quantity of oil binder in the load test	Weight %	4

After a load period of 2 hours no more oil was released.

2.6 Suitability for traffic areas

Parameters	Unit	Result
Change of the SRT value*	%	0

* (value taken from Test Report No. 22 000 797 00, MPA NRW dated 07/12/2000)

Maximum admissible change of the SRT value: 20%

The suitability for traffic areas was tested. The product is allowed to be labelled as an oil binder suitable for use on traffic areas.

2.7 Grain size distribution

Parameters	Unit	Result
Coarse fraction > 4 mm	Weight %	0,3
4 mm - 0,5 mm	Weight %	95,2
0,5 mm - 0,125 mm	Weight %	1,5
Fine fraction < 0,125 mm	Weight %	3,0

Basis for the classification: admissible coarse grain (> 4 mm)

Type I max. 10 weight %
 Type II max. 10 weight %
 Type III max. 10 weight %

3 Overall evaluation

The tested Oil Binder Elephant Sorb Spezial microfein **complies with the Requirements for Oil Binders**, publication of the Federal Ministry for the Environment, Nature Conservation and Nuclear Safety, dated March 12, 1990, (GMBI = Gemeinsames Ministerialblatt, Joint Ministerial Gazette, page 335), for **type III/R**.

This test report is valid until **14/06/2012** (6 years). This validity can be extended according to no. 5 of the requirements (LTwS no. 27).

Advice:

The test results apply only to the above mentioned test items. The issuance of a summary of the test report is subject to the written approval of the laboratory

Stuttgart, 8th December 2006

DEKRA Umwelt GmbH
Laboratory for Environmental and Product Analysis

<<Signature illegible>>

Dr. Roland Ackermann

TRANSLATION OF THE ORIGINAL TEXT IN GERMAN LANGUAGE