

# Safety Alert

## ASBESTOS IDENTIFIED IN CERTAIN ELECTRICAL FUSES



**KEY WORDS:** Asbestos; Electrical fuses

A recent report prepared by an asbestos consultant has identified the presence of electrical fuses that may contain internal asbestos packing.

The consultant's report also documented the following:

- The packing material is normally well encapsulated within the ceramic cylinder of the fuse and does not present health risk to personnel.
- For the asbestos to become exposed and pose any risk, the fuse must become significantly damaged (ie fire or physically damaged sufficiently to break the ceramic cylinder).



Photo 1: GEC Fuse Type NS2 – Contains asbestos



Photo 2: GEC Fuse Type NS16 – Does not contain asbestos (Note subtle variation in label design)

### KEY LEARNINGS AND IMMEDIATE ACTIONS:

- Identify any spare fuses from warehouse stock and electrical workshops that may contain asbestos (using a list prepared by the asbestos consultant)
- Replace these fuses with asbestos-free varieties
- Update site asbestos registers to include information on asbestos-containing fuses.
- Fuses in operation in the field are to be replaced as they fail or during pm's
- Disposal of asbestos - containing fuses to be in accordance with requirements as detailed in the Environment Management Manual EMM 9-05 and 9-10.

Issued by: G. Miskle  
Approved by: C.D. Shinnars  
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Remove from Noticeboards April 8, 2006. Copied to J.W. Jarvis, System Administrator for System 6-1 "Operating & Maintenance Procedures" for inclusion in work processes as required.

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This Safety Alert provides a summary only of the subject matter covered. Esso and Mobil assume no responsibility to outside parties for any action they may take in relation to the content of this Safety Alert



## **ELECTRICAL FUSES CONTAINING INTERNAL ASBESTOS PACKING**

This list shows the fuses that have been sampled to date for the presence of internal asbestos. Fuses that are not on this list may be treated as asbestos-containing or sent for identification by an accredited asbestos analysis (fee-for service will apply).

Any revisions to this list can be provided to the Esso Industrial Hygienist (9270 3326).

<b>Manufacturer</b>	<b>Type</b>	<b>Asbestos (Yes / No)</b>	<b>Comment</b>
ARTIC	Type 1000 GSDD , 300A	Yes	Internal asbestos millboard packing
Brush	Type 16FO6, 16A	No	
Brush	Type 20121, 20A	Yes	Internal asbestos millboard packing
Brush	Type 32H07, 32A	Yes	Internal asbestos millboard packing
Brush	Type 4F21, 4A	No	
Brush	Type 6F06	Yes	Internal asbestos millboard packing
Brush	Type 6H07, 6A	Yes	Internal asbestos millboard packing
Brush	Type: 16H07	Yes	Internal asbestos millboard packing
Brush	Type: 20F06, 20A	Yes	Internal asbestos millboard packing
Brush	Type: 63K07	Yes	Internal asbestos millboard packing
Dorman	HRC Fuse: Type AA015A	Yes	Internal asbestos millboard packing
Dorman	HRC Fuse: Type AAO6A	Yes	Internal asbestos millboard packing
Dorman	HRC Fuse: Type NSD4A	Yes	Internal asbestos millboard packing
Dorman Smith	Super Fuse Link: Cat.# AAO6A	Yes	Internal asbestos millboard packing
Dorman Smith	Super Fuse: Type BA060A	Yes	Internal asbestos millboard packing
Dorman Smith	Super Fuse Link: Cat.# AA20A	Yes	Internal asbestos millboard packing
English Electric	HRC Fuse Link for Geranium & Silicon Rectifiers: Type CGS1000/600A	Yes	Internal asbestos millboard packing
English Electric	HRC Fuse Link for Geranium & Silicon Rectifiers: Type GIS1000/450A	Yes	Internal asbestos millboard packing
English Electric	HRC Fuse: TIA25, 25A	Yes	Internal asbestos millboard packing
English Electric	HRC Fuse: TIA35, 35A	Yes	Internal asbestos millboard packing
English Electric	HRC Fuse: Type NS10, 10A	Yes	Internal asbestos millboard packing
English Electric	HRC Fuse: Type NS15	Yes	Internal asbestos millboard packing
English Electric	HRC Fuse: Type NS2, 2A	Yes	Internal asbestos millboard packing

<b>Manufacturer</b>	<b>Type</b>	<b>Asbestos (Yes / No)</b>	<b>Comment</b>
English Electric	HRC Fuse: Type NS6	Yes	Internal asbestos millboard packing
English Electric	HRC Fuse: Type NS6, 6A (#3)	Yes	Internal asbestos millboard packing
English Electric	HRC Fuse: Type NS6, 6A (Made in Aust.)	Yes	Internal asbestos millboard packing
English Electric	HRC Fuse: Type TF200A	Yes	Internal asbestos millboard packing
English Electric	HRC Fuse: Type TIA10, 10A	Yes	Internal asbestos millboard packing
English Electric	HRC Fuse: Type TIA2, 2A	Yes	Internal asbestos millboard packing
English Electric	HRC Fuse: Type TIA20, 20A	Yes	Internal asbestos millboard packing
English Electric	HRC Fuse: Type TIA30, 30A	Yes	Internal asbestos millboard packing
English Electric	HRC Fuse: Type TIA6	Yes	Internal asbestos millboard packing
English Electric	HRC Fuse: Type TIS50	Yes	Internal asbestos millboard packing
English Electric	HRC Fuse: Type TIS60	Yes	Internal asbestos millboard packing
English Electric	Type: 6SA/50A	Yes	Internal asbestos millboard packing
Federal	HRC Fuse: Cat. No. 20C4, 4A	Yes	Internal asbestos millboard packing
Federal	HRC Fuse: Cat. No. 20C6, 6A	No	
Federal	Type 63B63	No	
Ferraz	Protistor 1500V, 2 Amp	No	
GEC	HRC Fuse: Type gG NS10	No	
GEC	HRC Fuse: Type NIT10, 10A	No	
GEC	HRC Fuse: Type NS20, 20A	No	
GEC	HRC Fuse: Type TIA32	Yes	Internal asbestos millboard packing
GEC	Type: gG TIS63L	No	
Hazemeyer Holec	Type NS10, 10A	No	
Hazemeyer Holec	Type TIA 25A	Yes	Internal asbestos millboard packing
Hazemeyer Holec	Type: NS16A	No	
MEM	HRC Fuse: Type 100SDS, 100A	No	
MEM	HRC Fuse: Type 10SB3, 10A	No	
MEM	HRC Fuse: Type 16SB3, 16A	No	
MEM	HRC Fuse: Type 20SN2, 20A	No	
MEM	HRC Fuse: Type 25SB3, 25A	No	
MEM	HRC Fuse: Type 30SB3, 30A	No	

<b>Manufacturer</b>	<b>Type</b>	<b>Asbestos (Yes / No)</b>	<b>Comment</b>
MEM	HRC Fuse: Type 32SN2, 32A	No	
MEM	HRC Fuse: Type 40SB4, 40A	No	
MEM	HRC Fuse: Type 4SB2	No	
MEM	HRC Fuse: Type 4SN2, 4A	Yes	Internal asbestos millboard packing
MEM	HRC Fuse: Type 50SB4, 50A	No	
MEM	HRC Fuse: Type 63SB4, 63A	No	
MEM	Type 2SN2, 2A	Yes	Internal asbestos millboard packing
Mitsubishi	Indicating Fuse: Type FT-3A	No	
Siemens	Type 3NW NS10, 10A	No	
Siemens	Type 3NW TCP100, 100A	No	
Siemens	Type 3NW TCP80, 80A	No	
Siemens	Type 3NW TIA20, 20A	No	
Siemens	Type 3NW TIS50, 50A	No	
Siemens	Type 3NW TIS63, 63A	No	