

Type all copy at
very end

Asphalt fluids can be harmful to the environment.
Protect ^{and be good to} your environment, your company, ^{reputation} and yourself by always following ~~these~~ guidelines for handling ~~waste~~ asphalt fluids.

(1)

Double
Space

A Guide To Accumulation and Shipment of

WASTE ASKAREL FLUIDS

A Guide To Proper Accumulation and Disposal

Note: ^{set} ~~These following instructions are intended only as a guide. ^{For additional} ~~Instructions are available by referring to the reverse side of this chart, or refer to the~~~~
refer to the ^{ANSI} ^{CIOT} document, "Guidelines for Handling and Disposal of Capacitor and Transformer Grade Resins, Containing Polychlorinated Biphenyls," available from the American National Standards Institute, 1430 Broadway, New York, New York 10018.

ACCUMULATION OF WASTE FLUIDS

DRUMS — WHAT TO USE

Must be

55-gallon drums: ^ 18-gauge steel or heavier, with and have a 2-bung head.

Must be

5-gallon drums: ^ 24-gauge steel or heavier.
^{SPACE}
(Drums must meet DOT 17-E specifications)

^{SPACE}
DO NOT USE:

Old drums

Rusted drums

Corroded drums

Damaged drums

Drums with weak walls or seams

MONS 074800

FILLING ~~THE~~ DRUMS

~~All Drums with~~ LIQUID WASTE ONLY.

Keep ~~all~~ ~~away~~ all solid materials out of ~~askarel~~ ~~away from~~ drums used for waste askarel liquid. Solid materials (^{sludge} ~~traps~~, nails, paper, sawdust, floor sweeping chemicals, etc.) must be accumulated and disposed of separately. Contact your environmental department for proper disposal of solid materials.

Keep water out of drums.

Waste askarel fluid shipped to Monsanto ~~are~~ for ~~destroyed by~~ incineration. ~~Therefore, waste~~ fluids must not contain more than 1% water, or possible damage to the incinerator may result.

Do not overfill drums.

Leave ~~at~~ air space for fluid expansion

55-gallon drums: 1½" - 2" minimum (approx. 2 gallons)

(3)

Do not overfill drums

~~The~~ ~~airspace~~ ~~must be left in ashore filled~~ is needed ~~drums~~ to allow for possible thermal expansion of the fluid.

Minimum airspace: 55-gallon drums -- $1\frac{1}{2}$ - 2 inches
(approximately 2 gallons)
5-gallon drums -- 1 inch

Failure to leave sufficient ~~a~~ ~~an~~ airspace can result in possible fluid leakage ~~through the bung seal~~ or seam failure due to fluid pressures caused by fluid expansion.

~~Sealing Drums~~ SEALING DRUMS

Use a
~~Seal drums with~~ the proper bung seal, inspecting ^{the bung seal} the drum opening ~~and the bung~~ for possible ~~to insure~~ a tight, leak-proof seal.

Do not use ^{damaged bungs,} rags, pieces of wood, ~~or damaged~~ ~~bungs~~ ~~to seal the drums~~ to seal ~~the~~ drums or other inappropriate materials

(4)

FILLED

STORING¹ DRUMS PRIOR TO SHIPMENT

If akevel-filled drums must be stored prior to ~~plan~~ return to Monsanto:

- ~~Inspect drums to be sure they are properly and tightly sealed and clean of any~~
- Inspect Drums for Leakage
~~Inspect drums for leakage around seams and bung seal,~~
making sure all seals are tight and leakproof.
- Clean Drums Up Spillage
Clean the outside of the drum of any spilled fluids, following approved cleaning methods. Properly dispose of materials and ^{any} water used to clean drums.
- Store in Protected Area
Drums should be stored ^{outside}
- Store drums in an area where they will be protected from possible damage and inclement weather.

MCNS 074803

• If drums must be stored in an exposed area, store drums on their sides so that rain water will not accumulate on the top of the drums. (As drums "breathe," water could be drawn into the drum through the bung seals). Use

(5)

- Do Not Stack

- Do not stack drums, whether stored on their sides or on end.

←

TRANSPORTING DRUMS IN-PLANT DRUM TRANSPORTATION

- Use Proper Drum-Handling Equipment

~~Asphalt-filled drums should not be palletized for transportation.~~
grabbing asphalt-filled

Preferably, drums should be moved ^{only} with a proper drum-grabbing device. ~~to prevent possible damage.~~

A parrot beak-type of drum-grabbing device will reduce the possibility of damage to drums. Common drum handling devices ^{of this type} are the Lift-O-Matic, manufactured by Marvel Industries, or the Vert-O-Matic drum carrier.

~~Do not Palletize ~~Asphalt-filled~~ drums.~~

~~If drums must be palletized.~~

Asphalt-filled drums should not be palletized. If pallets must be used:

MONS 074804

- Be sure pallets are properly constructed and undamaged to minimize the possibility of the drum falling from the stack while being transported.

6

- • Steel-band all drums to ^{their} ~~the~~ pallets
- If 2- or 4-drum pallets are used, drums should be banded together horizontally as well as ^{vertically} to the pallet.

• Single-drum pallets should be no more than 23 inches in width, multiple ~~drums~~ (2 or 4) drum pallets no more than 46 inches wide. So ~~that~~ ~~that~~ that four drums can be loaded ~~across~~ across the ~~width~~ width of ~~the~~ truck to prevent shifting in transit, ←

(7)

DRUM LABELING AND SHIPMENT

The following procedure must be adhered to for ~~labeling and shipment of~~ ^{shipped} ~~asphalt-filled drums~~ to Monsanto. For EACH Shipment:

1. Contact: Mr. C.R. Field
Monsanto Company
800 N. Lindbergh Blvd.
St. Louis, Missouri 63166
(314) 694-3024

• Supply the following information to Mr. Field:

- Number of drums in the shipment.
- ~~Address where~~ Name and address of person to receive drum labels.
- Purchase Order number, if a specific number is to be used.
- Anything out of the ordinary about the fluid or the shipment.

Mr. Field will ^{then} ~~return~~ ^{send} the following ~~to~~

MONS 074806

- Letter of authorization ~~to~~ for the shipment

0 0 0 0 0 0 0 0 0 0

⑥

- Hazardous Fluids Warning to be attached to the bill of lading.
- Terms of shipment and charges, if any.

Upon receipt of above materials:

2. Fill in ~~each~~ ^{EACH} label with ~~proper~~ ^{Monsanto} identification number, product description and YOUR telephone number.
 3. Label EACH drum
 4. Put ~~the~~ ^{the} Monsanto identification number on ~~the~~ bill of lading and attach Hazardous Fluids Warning.
- and your telephone number

II. LOADING AND SHIPMENT

- Perform a final check for leakage, ^{damage} and tight seals and to assure drums are sealed tight
- Load ^{and secure drums} to prevent ~~movement~~ ^{shifting} in transit



Do not ship via piggyback.

MGNS 074807

(If shipment is part of a mixed consignment, be certain drums are stowed away from any human or animal habitable or

⑨

- Be certain driver notes Hazardous Fluids Warning and telephone numbers in case of leakage or other problems.
 - Do not ship via piggyback.
-

Please Note: Monsanto checks all shipments upon arrival. Failure to adhere to above guidelines could result in fluids being returned to the shipper and additional charges assessed.

Monsanto (logo)