1.0 Scope:

Insulating varnishes + resins may generate chemical waste during its usage. The lumps generated in the oven, the gelled particles accumulated in the impregnation chamber, resin gelled in the storage tanks are being treated as a hazardous chemical waste & needs to be handled in appropriate way.

2.0 Procedure for disposal:

Insulating varnishes + resins contain reactive monomers like Diluent M and Diluent V + organic solvents. These monomers having flammable characteristics make Insulating varnishes + resins flammable. All precautions to handle flammable products should be taken for Insulating varnishes + resins, both as supplied and activated.

Personal protective equipment is such as PVC gloves, eye protection goggles and facemask are must. For detailed information on safety during handling, please refer to Material Safety Data Sheets (MSDS) for the particular resin system in use.

Diluents + thinners are used for cleaning stator ID or rotor OD. The diluent used after cleaning have resin particles. This resin particles can be separated by passing it through fine mesh (10 micron) The screened particles can be stored in the MS container for further disposal action.

After certain usage period Diluents / resin in liquid condition might be needed to dispose off. Under such circumstances it is recommended to cure the resin at elevated temperature (150°C) in oven so that the chemical reactivity of the solid mass will not cause any harm such as increase in temperature. Disposal of liquid resin or activated varnish / resin (waste or left over) needs to be carefully done. Liquid resins can be incinerated under controlled conditions.

It is normally observed that the liquid resin waste is stored in MS containers at ambient temperatures. It may be remembered that the reaction at the time of solidification of activated resin from liquid / semi-gelled state to solid state is exothermic. The temperature may exceed 350°C depending upon the quantity of activated resin in the container. It is best to store smaller quantity of activated resin (generally not more than 30 kg). When exothermic reaction takes place in such containers the white colour fumes are released from the mixture. Under these situations the container should be kept in open with its lid should be kept open. Water should be continuously poured on the container to control the reaction temperatures.

For reducing polymerization rate, add 0.5% by weight of activated resin, Inhibitor UP 1, mix the liquid manually or by rolling the container and leave the container for solidification.

Solidified UP resin is quite safe for disposal. This can be done by controlled incineration or land filling.

For any specific information, please contact our Technical Services Department

Revision: September 2018

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