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EFFECT OF STORAGE ON GLYPHOSATE FORMULATION AND THEIR IMPURITIES.

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ABSTRACT

The present work was carried out to study the effect of storage temperature on the stability of herbicides formulation for all Glyphosate Round up 48 % , Hervosit 48 % , Remmber 62% , Herbazed 48 % and Glasit 48 % after storage at 54 °C for 28 days . the active ingredient of Glyphosate after storage were 36.2 , 36.0, 62.5 , 36.0 and 36.4 before storage for Round up Hervosit , Remmber , Herbazed and Glasit, become after storage period (28 days) from storage were 34.5 , 34.0 , 60.0 , 35.20 and 34.06 respectively . The loss percentage were 4.69 , 5.0 , 6.25 , 2.77 and 6.59 when the Glyphosate compound previously were stored at 54 °C for 28 days storage . The N.nitros Glyphosate amin impurities Round up Hervosit , Remmber , Herbazed Glasite before storage were 0.39,1.55 , 0.95 .2.93 3.50 respictvely and become after storage for 28 days 1.99, UND, 1.82 , UND and UND, respectively. that the polyethexylate tallo amine impurities for Round up , hervosit , Remmber , Herbazed , Glasit and sunup before storage were UND , UND,3.5,9.5 and 5.7 and become after storage , UND ,UND ,7.9 , 18.2 ,7.2 after storage for 28 days respectively .

Key Words : Glyphosate , Impurities, N-Nitrosoglyphosate (NNG)
polyethexylate tallo amine .