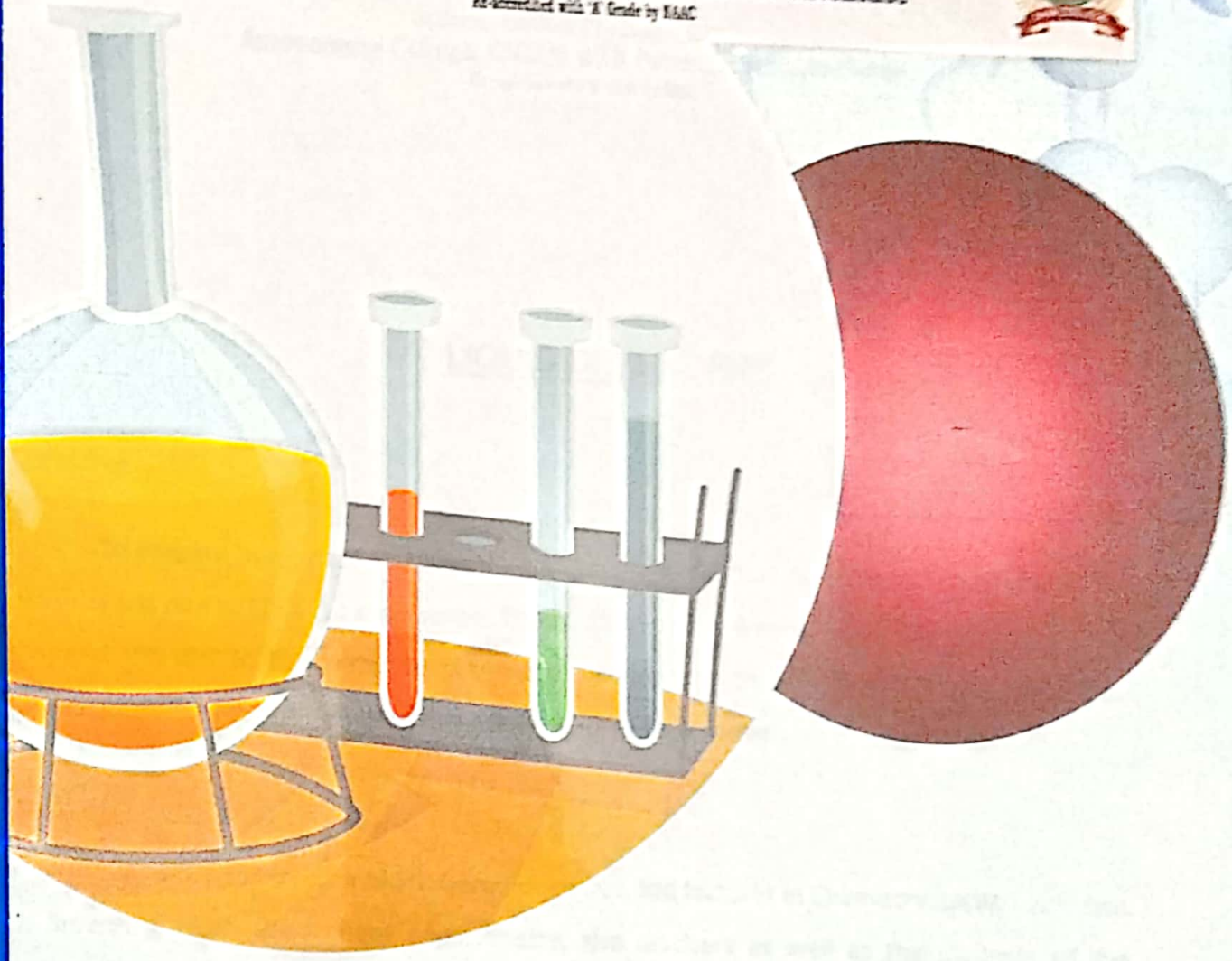
DODLA KOUSALYAMMA GOVERNMENT COLLEGE FOR WOMEN

Nellore, Andhra Pradesh - 524003

Autonomous College, College with Potential For Excellence

Re-accredited with 'A' Grade by NAAC



LIQUID DETERGENT

DEPARTMENT OF CHEMISTRY

2021-22

Circular

23/3/2022

This is here by inform you that Department of Chemistry is going to organise a Programme on the "preparation of active of High Quality Liquid detergent for top load - front load washing machines" on 24/03/2022 as part of best practices in the Dept of Chemistry at 11 A.M. So all the Science Students should avail this opportunity and make the Programme highly successful.

HOD
The Dept of Chemistry

23/3
Principal
D.K.Govt. College for Women (A)
NELLORE.

23/3

23-3-22

II B.Sc Biotech.

II Appear

DODLA KOUSALYAMMA GOVERNMENT COLLEGE FOR WOMEN
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Date: 25.03.2022

LIQUID DETERGENT

Objective

To prepare liquid based detergent - a cleansing agent that differs from soap but can also emulsify oils and hold dirt in suspension. The function of liquid detergent is break up stains and suspend the dirt in the water to prevent the redeposit ion of the dirt onto the surface. Surfactants disperse dirt that normally does not dissolve in water.

Procedure

Under the supervision of Sri. Gurucharan Das, Rtd lecturer in Chemistry, DKW, Smt. D. Surendra, HOD, department of chemistry, the teachers as well as the students of the Department prepared the Anionic based liquid Detergent.

Ingredients

- 500 mL of sodium lauryl ether sulfate (SLES) as a base ingredient of liquid detergent
- 500 mL of alpha olephinic sulphonate (AOS) an additive in making soap lather
- 150 mL, of Sodium Silicate (SS),serves as a cleansing power of the detergent
- 5%-1% or 5-10 grams table salt or Sodium Hydroxide to maintain basic PH

- 500 mL of demineralised water
- 2-5 mL of fragrance
- 5-10 gms of urea to increase viscosity

1. Mix sodium lauryl ether sufate and alpha olephinic Sulphonate in 1:1 ratio (each 500mL) and stir well with stirrer.
2. Add 150 mL of Sodium Silicate to the above mixture and stir well.
3. Continue mixing until it become sticky. Add small amount of water while mixing to avoid creating bubbles. Set aside the SLES-AOS-SS mixture when it turned cream.
4. Get your cream and mixed it again slowly using the electric mixer.
5. In a separate mixing bowl, dissolve 2 tablespoonful of salt or urea or lye in water before adding it to mixture SLES-AOS-SS.
6. Add 2-5mL of blue to the mixture.
7. Continue mixing using the electric mixer until it become creamy.
8. Put it in a container an add few drops of fragrance and mix it well and set aside.
9. From time to time, scoop bubbles forming at the top of the mixture and finally add 500mL-1000mL of demineralised water with stirring.
10. When there is no bubbles anymore, put the liquid detergent in a clean bottle. You can use the liquid detergent after 24 hours

Summay

The students have prepared the anionic liquid detergent with the help of Sri. Gurucharan Das and faculty members of chemistry department. The detergent sample bottles were distributed among the college community.

The College Principal Dr. D. Giri, has rendered full support for the successful execution of this extension activity.

Feedback form

List of Students Attended

S.No.	Name	Class	Signature	Feedback
1	K. Poojitha	II BSc(BZC)	K. Poojitha	Good
2	V. Sweela	III BSc(BZC)	V. Sweela	Good
3	K. mahima	III BSc(BZC)	K. mahima	Good
4	K. Rajeswari	III BSc(BZC)	K. Rajeswari	Good
5	U. Sivakumari	III BSc(MPC)	U. Sivakumari	very well
6	Y. Sindhuja	III BSc(MPC)	Y. Sindhuja	very well
7	P. Sravanthi	III BSc(MPC)	P. Sravanthi	very well
8	G. Bhavana	III BSc(MPC)	G. Bhavana	Good
9	Md. Hasina Firdose	III BSc (MPC)	Md. Hasina Firdose	Very Good.
10	L. Sivanya	III BSc (MPC)	L. Sivanya	Very Good
11	M. vijaya lakshmi	III BSc(BZC)	M. vijayalakshmi	Good
12	K. Venkata Lakshmi	III BSc(MPC)	K. Venkata Lakshmi	very good.
13	K. Sandhya Rani	III BSc (MPC)	K. Sandhya Rani	Excellent.
14	T. Archana	III BSc(MPC)	T. Archana	Good.
15	P. Sireesha.	III B.Sc(MPC)	P. Sireesha.	very Good.
16	D. Rajya	III BZC E.M	D. Rajya	Good.
17	D. Sireesha	III BZC (E.M)	D. Sireesha	Good
18	P. Bharathi	III BZC (EM)	P. Bharathi	Good
19	CH. Jeevitha	III BZC (E.M)	CH. Jeevitha	Good.
20	P. Sarija	III BZC (E.M)	P. Sarija	Good

Principal
P.K.Govt. College for Women (A)
NELLORE.

Hd. Dept. of Zoology

Preparation of Liquid detergent

20/3/22

All the staff members of Chemistry department have assembled on 20/03/2022 in Departmental room and discussed the following Agenda:

Agenda: To organize a programme on "The preparation and action of High Quality Liquid detergent for top load - front load washing machines" by Dr. V. Guruchoran Das as part of best practice in the Department of Chemistry on 23/03/2022 at 11:00 am

Discussion: Teaching Staff & Non Teaching Staff of the Department thoroughly discussed and eventually decided to organize a programme on the "Preparation and action of High Quality Liquid detergent for top up load - front load washing machine" by Dr. V. Guruchoran Das as part of the best practice in the Department of Chemistry on 24/03/2022 at 11 A.M. our staff members strongly believe that this programme inspire the students and to develop the entrepreneur skills in them

Resolution (1) It is resolved to organize a programme on "The preparation and action of High Quality Liquid detergent for top load - front load washing machine" by Dr. V. Guru Charan Das in the Department of Chemistry on 23/03/2022 at 11:00 AM

Principal
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