

ZYCOWET

A NEW GENERATION POLYMERIC WETTING AGENT FOR DESIZING & SCOURING.

Zycowet is a new generation non-ionic and mildly anionic Polymer based solution designed for effective removal of natural impurities and suspension of oil during scouring or dyeing process from woven or knitted fabrics.

Non-ionic wetting agents based on ethylene oxide condensates have limitation in effective suspension of waxes and oily particles released during scouring process due to cloud point constraint and ability to stabilize above 0.5-micron droplets or particles. **Zycowet** due to the improved retentive wetting allows the enzymes in desizing and chemicals like NaOH, Na₂CO₃, H₂O₂ etc in scouring process to work more effectively on the surface to remove the starches, waxes and foreign particles.

Due to an excellent suspension and anti-redeposition nature it keeps wax and foreign particles in stable suspension and allows it to be removed from the scouring bath without getting re-deposited. This results in improved whiteness of the scoured fabric and also helps in making the surface hydrophilic.

Zycowet can also performs as a retentive wetting agent for cotton, PC, PV, Silk fibers.

Features	Benefits
Structure with perfect combination of hydrophobic and hydrophilic groups	Good wetting and suspension characteristics
Non ionic product with mild anionic Charge	Compatible with auxiliaries used in textile use.
Stable even at higher temperature	effective suspension of waxes and oil without redeposition

Specifications:

Physical Form	:	Solid
Diluent	:	Water
Solid content	:	98 ± 2%
Nature	:	A mixture of nonionic and mild anionic components

Preparation of 30% solution:

- Take 3X gm of **Zycowet**
- Add 7X gm of water at RT
- Stir it for 15—20 min and whitish viscous solution will be formed.

Application of 30% solution:

Desizing	:	Zycowet -30% should be used at 0.2 – 0.3% on the weight of the fabric for Desizing Application .
Scouring	:	Zycowet -30% should be used at 0.5 – 1.0% on the weight of the fabric for Scouring Application .

Recipes:

Enzymatic desizing	:	X gpl Amylase 3.5 gpl Zycowet -30% 1-3 gpl common salt Temp- 70°C Time – approx 4-6 Hr.
Scouring (Knits)	:	0.5% Zycowet -30% 2.5 % NaOH Temp- 90°C
Scouring of Textiles Contaminated with oils	:	1.0% Zycowet -30% 2.5% NaOH 1% soda ash Temp- 90°C Time – approx 1 Hr.
Bleaching	:	20-50 ml/l H ₂ O ₂ 35% 4 - 6g/l NaOH 100% 1.0% Zycowet -30%

Procedure:

Zycowet is a concentrated product. It should be pre-diluted in water before adding to any scouring or dye bath. Compatibility of chemical bath needs to be checked.

Storage:

- At room temperature, the solution has thickening tendency. So mixing is necessary before further use.
- Keep the drums of **Zycowet** in a cool shade. Do not store in direct sun or at a temperature higher than 40°C.
- In case the drums are open and are intended to be stored for a longer time, ensure to tie and seal the mouth to avoid moisture contact.

Disclaimer: *The information in this leaflet is given in good faith but without warranty. We recommend that before using our products, the customer should make his own tests to determine the suitability of the products for his own purpose under his operating conditions. As the circumstances under which our products are stored, handled and used are beyond our control, we cannot assume any responsibility for their use by the customers.*

MATERIAL SAFETY DATA SHEET

1. Trade Name: **Zycowet**

Company:

ZYDEX INDUSTRIES
25A, GANDHI OIL MILL COMPOUND
GORWA
VADODARA-390016, INDIA

Emergency information:

ZYDEX INDUSTRIES
TELEPHONE NO.+91 265 2280865, 2283386 FAX NO.91 265 2280872

2. **Composition/information on ingredients:**

Chemical nature: **Nonionic Polymer mixture**

3. **Possible hazards**

Critical hazards to man and the environment: Non-hazardous

4. **First aid measures**

General advice:	Remove contaminated clothing
If inhaled:	Keep patient calm, remove to fresh air
On skin contact:	Wash thoroughly with soap and water
On contact with eyes:	Wash affected eyes for at least 15 minutes under running water with eyelids help open, consult an eye specialist, if necessary.
On ingestion:	Rinse mouth and then drink plenty of water

5. **Fire fighting measures**

Suitable extinguishing media:	Water spray, dry extinguishing media carbon di-oxide (CO ₂) Non-flammable and hence no fire hazard.
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6. Accidental release measures

Personal precautions:	No special measures necessary
Environmental precautions:	Do not let product enter drains
Methods for clearing up:	Contain with absorbent material and dispose. Clean with water.

7. Handling and storage

Handling:	Ensure thorough ventilation of stores and work areas
Protection against fire & explosion:	No special measures necessary
Storage:	Keep tightly closed in a dry and cool place.

8. Exposure controls and personal protection

Personal protective equipment

Respiratory protection:	Not required
Hand protection:	Protective gloves
Eye protection:	Goggles
General safety and hygiene measures:	The usual precautions for the handling of chemicals must be observed.

9. Physical and chemical properties

Form	:	Semi-Solid
Colour	:	Whitish
Odour	:	mild odour
Flash point	:	≥100°C
Ignition temperature:		N/A
Explosion hazard	:	No explosion hazard
Vapour pressure	:	N/A
Solubility in water	:	Dispersible in water at room temp.
pH value	:	N/A
Viscosity	:	N/A

10. **Stability and reactivity**

Conditions to avoid:	Stable
Storage time:	12 months
Hazardous reactions:	None, provided product is correctly processed

11. **Toxicological information:** **NON-TOXIC**

12. **Ecological information**

General Notes:

Do not allow material to be released to the environment without proper governmental permits.

13. **Disposal consideration**

Product:	Must be dumped or incinerated in accordance with local regulations
Contaminated packaging:	Uncontaminated packs can be re-used. Packs that cannot be cleaned should be disposed of in the same manner as the contents.

14. **Transport Information:** Not a hazardous material for transportation.

DOT regulations
Hazard class : Not regulated.

Land transport ADR/RID (Cross-border)
ADR/RID Class : Not regulated.

Maritime transport IMDG:
IMDG Class : Not regulated.

Air transport ICAO-TI and IATA-DGR:
ICAO/IATA Class : Not regulated.

Transport/Additional information: Not dangerous according to the above specifications.

15. Regulations

Product related hazard information:

*Hazard symbols: Non-Hazardous

*Risk phrases:

36/37/38 Irritating to eyes, respiratory system and skin.

*Safety phrases:

26 In case of contact with eyes, rinse immediately with plenty of water
& seek medical advice.

36 Wear suitable protective clothing.

*Information about limitation of use: For use only by technically
qualified individuals.

16. Other Information

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of the information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product conformance with this Material Safety Data Sheet, or in combination with any product or process, is the responsibility of the user.

.Department issuing MSDS: Safety and Environmental Department.

.Contact: Ajay I. Ranka

PS: The information contained herein is based on the present state of our knowledge and does not therefore guarantee certain properties. Recipients of our product must take responsibility for observing existing laws and regulations.
