

MATERIAL SAFETY DATA SHEET

1.IDENTIFICATION OF THE PRODUCT AND COMPANY

1.1.PRODUCT NAME	ENZYMATIC PREPARATION
1.2.PRODUCT CODE	EZYCARE NEUTRA KD
1.3.APPLICATION	TEXTILE FINISHING AGENT
1.4.MANUFACTURER	RESIL CHEMICALS PRIVATE LIMITED Unit 30 ,Bangalore Co-operative Industrial Estate Limited Old madras Road Bangalore - 560 016 TEL : 43486100,43486111 FAX: 28512054.

2.COMPOSITION & INFORMATION ON INGREDIENTS

2.1.Chemical Identity	An aqueous based emulsion of cellulase
2.2 CAS No.of active ingredient	9012-54-8

3. HAZARD IDENTIFICATION

3.1. Hazardous nature	Non-hazardous
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4.FIRST AID MEASURES

4.1.Skin	Can be removed by water wash or water and soap.
4.2.Eyes	Flush eyes with plenty of water, seek medical attention, if necessary.
4.3.Inhalation	Remove from contaminated area to fresh air,seek medical attention if allergic response exists
4.4.Ingestion	Give large quantity of water , seek medical advise in case of sickness.

5.FIRE FIGHTING MEASURES

5.1.Extinguishing media	Use any of the following extinguishing measures Viz .,water , foam and halones.
5.2.Unsuitable extinguishing media	None known
5.3.Special exposure hazards	Inhalation of aerosol may result in sensitization.Avoid any contact with the substance
5.4.Special protective equipments	No special equipments are required, usual fire-fighting equipment can be used. Self contained breathing apparatus

6.ACCIDENTAL RELEASE MEASURES

6.1.Personal precautions	Wear personal protective suits
6.2.Environmental precautions	Observe local byelaws. Do not allow to enter natural waters or soil .
6.3.Clean up procedure	Mop, wipe or soak with cloth or absorbents. e.g. sand, kieselguhr, saw dust, etc and dispose according to regulations.

7.HANDLING AND STORAGE

7.1.Handling precautions	General ventilation is required. Avoid eye contact.
7.2.Storage	Store in any dry place with general ventilation, in closed containers.Seggregate from acids,peroxides and all combustible organic or oxidizable materials
7.3.Incompatible packaging materials.	Advised to use original containers only.
7.4.Other information	Keep from freezing.Protect against physical damage .Empty container retains vapor and produce residue

8.EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1.Exposure controls	No assigned exposure limits known
8.2.Personal protective equipment	
Respiratory protection	Regular protective masks with P3 filters are recommended
Hand protection	Protective gloves recommended
Eye protection	Goggles giving full protection required.
Hygiene measures	Observe standard industrial hygiene practices for handling of chemical substances. Avoid contact with skin, eyes.

9.PHYSICAL AND CHEMICAL PROPERTIES

9.1. APPEARANCE	
Form	Liquid
Colour	Pale yellow to yellow
Odour	Fermentation odour
9.2.SAFETY DATA	
pH (undiluted)	6.0 - 7.0
Boiling point	Not applicable
Melting point	Not applicable
Flash point	Not determined
Flammability	Nonflammable
Auto flammability of active ingredients	Not applicable
Explosive properties	Not applicable
Oxidising properties	Not determined
Vapour pressure	Not determined
Relative density	Approximately 1g/cubic centimeter
Solubility in water	Readily soluble
9.3.OTHER DATA	
Vapor density	Not determined
Evaporation rate	Not determined
Conductivity	Not determined
Viscosity	Not applicable

10.STABILITY AND REACTIVITY

If stored and handled in accordance with standard industrial practice no hazardous reactions are known.

10.1.Stability	Stable
10.2.Reactivity	
Conditions to avoid	Heating and cooling
Materials to avoid contact	Do not bring in contact with combustible organic or easily oxidisable material
Hazardous decomposition	None known

11.TOXICOLOGICAL INFORMATION

11.1.Health effects	
On Skin	Not a skin irritant but prolonged contact to be avoided
Eyes	May cause temporary discomfort/irritation
Inhalation	Mist or spray may cause allergic reactions in susceptible individuals. Avoid breathing fumes
Ingestion	No significant effect
11.2.Other effects	No chronic effects known from short or long term exposures. Non carcinogenic, non-mutagenic and non-teratogenic

12.DISPOSAL CONSIDERATIONS

13.1.Product disposal	Dispose off according to regulations by incineration in a special waste incinerator. Observe local bye-laws.
13.2.Packaging disposal	Since packaging material does not get contaminated, it may be reused/recycled after thorough soap washing. Observe local bye-laws.

13 .ECOLOGICAL INFORMATION

12.1.Mobility	Not known
12.2.Persistence°radability	Biologically degradable
12.3.Bioaccumulative potential	Not known
12.4.Ecotoxicity	Not known
12.5.Behaviour in sewage	No significant effect.

14. TRANSPORT INFORMATION

14.1.UN No.	Not applicable
Symbols	Not applicable
14.2.Road &Rail transport	No special packaging or labeling requirements
14.3.GGVS/GGVE	Non-hazardous
14.4.IMDG code	Non-hazardous
14.5.Air Transport(ICAO/IATA)	Non hazardous, no special packaging, or labeling requirements

15. REGULATORY INFORMATION

15.1.Health and safety Information on labels	None
15.2.EINECS	Exempted

16.OTHER INFORMATION AND DATA

The information and data contained in this “ Material Safety Data Sheet” is based on our present state of scientific and technical knowledge. RESIL does not guarantee the properties of the described products in terms of legal warranty regulations. In all cases, it is the responsibility of the user to determine the applicability of such information or the suitability of any products for their own particular purpose. The physical data presented herein does not purport to be the specifications. The structure and contents of information other than the data are based on “Chemicals Hazard Information on Packaging” (CHIP) Regulations 2009 and as per : ANSI Z400.1-2004.