UNITED SPECIALITIES [P] LTD.

MATERIAL SAFETY DATA SHEET

LuminophoreTCB

SECTION I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name	Luminophore TCB
CAS NO	Not Available for the final preparation
Registration No.	The product is a preparation so the ingredients are pre-registered

Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

Application of the substance / the mixture

Used as an optical whitening agent for the wet processing of polyester/ polyester blend textiles.

DETAILS OF THE SUPPLIER OF THE MATERIAL SAFETY DATA SHEET

Manufacturer/Supplier

United Specialities (P) Ltd.
501, Man Excellenza, Opposite Pawan Hans,
S.V. Road, Vile Parle (West) Mumbai 400056, INDIA
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Further information obtainable from:

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Laboratory	lab@unitedspecialities.com

Emergency Telephone Number :
Contact details of European importer Emergency
Telephone number Telephone number of EU Importer:
Opening hours:
Other Comments (e.g. language(s) of the phone service): English

SECTION II. HAZARDS IDENTIFICATION

· Classification of the substance or mixture
· Classification according to Regulation (EC) No 1272/2008
Eye Irrit. 2 H319 Causes serious eye irritation.

· **Label elements**
· **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.

· **Hazard pictograms**	GHS05
· **Signal word**	Warning
· **Hazard-determining components of labelling:**	Isotridecaanol, 3-5 EO
· **Hazard statements**	H315 Causes skin irritation. H318 Causes serious eye damage

· **Precautionary statements**

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.

· **Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT** : Not applicable.
· **vPvB**: Not applicable.

SECTION III. COMPOSITION AND INFORMATION ON INGREDIENTS

· **Chemical characterization:** Mixture
· Description Mixture of substances listed below with nonhazardous additions.
· **Dangerous components**

CAS: 25322-68-3 NLP: 500-038-2	Polyethylene glycol STOT SE 3, H335	3.75%
CAS: 166736-08-9	Oxirane, methyl-, polymer with oxirane, mono(2-propylheptyl) ether Eye Dam. 1, H318; • Acute Tox. 4, H302	1.5%
CAS: 69011-36-5	Isotridecaanol, 3-5 EO Eye Dam. 1, H318; Skin Irrit. 2, H315; Aquatic Chronic 3, H412	1.0%

· **Additional information:** For the wording of the listed risk phrases refer to section 16.

SECTION IV. FIRST AID MEASURES

Description of first aid measures
· **After inhalation**
Supply fresh air; consult doctor in case of complaints.

· **After skin contact:**
Generally the product does not irritate the skin. Wash affected skin with soap and water.

· **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· **After swallowing:**
Rinse out mouth and then drink plenty of water. If symptoms persist consult doctor.
· **Most important symptoms and effects, both acute and delayed**
No further relevant information available.

• **Information for doctor:**
Treat symptomatically and supportively.

· **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION V. FIRE FIGHTING MEASURES

Extinguishing media
· **Suitable extinguishing agents:**
CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· **Special hazards arising from the substance or mixture** :
In case of fire, the following can be released: Nitrogen oxides (Nox)
Carbon oxides

· **Advice for firefighters**
Protective equipment
Wear suitable protective clothing to avoid contact with skin.
Wear self contained breathing apparatus for fire fighting if necessary.

SECTION VI. ACCIDENTAL RELEASE MEASURES

· **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation

· **Environmental precautions**
Do not allow to enter sewers/ surface or ground water.

· **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Keep in suitable, closed containers for disposal.

· **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION VII. HANDLING AND STORAGE

Precautions for safe handling

No special precautions are necessary if used correctly.

· **Information about fire - and explosion protection:**

No special measures required.

Conditions for safe storage, including any incompatibilities

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**

Store in a cool, dry, well-ventilated area away from incompatible substances.

· **Information about storage in one common storage facility:**

Keep away from any area where the fire hazard may be acute. Outside or detached storage is preferred

· **Further information about storage conditions:**

Keep container tightly sealed.

· **Specific end use(s)**

Used as an optical whitening agent for textiles.

SECTION VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

· **Additional information about design of technical facilities:**

Local exhaust ventilation required plus good work practise. Safety shower. Eye fountain.

· **Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

25322-68-3 Polyethylene glycol (5%)

Denmark	TWA 1000 mg/m3,	MAY 2011
Germany	MAK 1000 mg/m3), inhal,	2011
The Netherlands	MAC-TGG 1000 mg/m3,	2003
Switzerland	MAK-W 1000 mg/m3,	JAN 2011

· **Exposure Controls**

Personal protective equipment:

General protective and hygienic measures:

- Keep away from foodstuffs, beverages and fooodstuffs.
- Immediately remove all soiled and contaminated clothing
- Wash hands before breaks and at the end of work.
- Avoid contact with the eyes and skin.

· **Respiratory protection**

- In case of brief exposure or low pollution use respiratory filter device.
- In case of intensive or longer exposure use self-contained respiratory protective device.

· **Protection of hands:**

Use Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/
the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection** Tightly sealed goggles

· **Body protection** Wear appropraite protective clothing to prevent skin contact.

SECTION IX. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

General Information

Apperance

Form	Fluid
Colour	According to product specification
Odour	Characteristic
pH-value	Not Applicable

Change in Conditions

Melting point/Melting range	Undetermined.
Boiling point/Boiling range	Undetermined.
Flash point	Not applicable

Flammability (solid, gaseous)	Not applicable as the state is different.
Self-igniting	Product is not self igniting.
Danger of explosion	Product does not present an explosion hazard
Vapour pressure	Not applicable
Density	Not determined
Solubility in/Miscibility with water	Miscible
Partition coefficient (n-octanol/water)	No determined
Viscosity: Dynamic	Not determined
Other Information	No further relevant information available.

SECTION X. STABILITY AND REACTIVITY

· **Reactivity**: Stable at ambient temperature and under normal conditions of use.
· **Chemical stability**
· **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
· **Possibility of hazardous reactions**
No dangerous reactions known.
· **Conditions to avoid**
No further relevant information available.
· **Incompatible materials**
Heat, flame, strong oxidizers, strong acids
· **Hazardous decomposition products**
Hazardous decomposition products formed under fire conditions - Carbon oxides, nitrogen oxides (NOx)

SECTION XI: TOXICOLOGICAL INFORMATION

· Information on toxicological effects
· Acute toxicity:
· LD/LC50 values relevant for classification:
166736-08-9 Oxirane, methyl-, polymer with oxirane, mono(2-propylheptyl) ether

Oral	LD50	500 mg/kg (rat)

69011-36-5 Isotridecaanol, 3-5 EO

Oral	Ld50	> 2000 mg/kg (rat)

Primary irritant effect:
Skin corrosion/irritation
Test Substance: CAS No. 166736-08-9
Type of Test: OECD Guideline 404
Rote of exposure: Administration onto the skin
Species observed: Rodent - rabbit
Result: Non-irritant
· Serious eye damage/irritation
Causes serious eye irritation.
Test Substance: CAS No. 166736-08-9
Type of Test: OECD Guideline 405
Rote of exposure: Administration into the eye
Species observed: Rodent - rabbit
Result: Risk of serious damage to eyes

Test Substance: CAS No. 69011-36-5
Type of Test: OECD Guideline 405
Rote of exposure: Administration into the eye
Species observed: Rodent - rabbit
Result: Highly irritating
· Respiratory or skin sensitisation No sensitising effects known.
· Repeated dose toxicity No studies available for the product.
· CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
· Germ cell mutagenicity No data available
· Carcinogenicity No data available
· Reproductive toxicity No data available
· STOT-single exposure No data available
· STOT-repeated exposure No data available
· Aspiration hazard No data available

SECTION XII. ECOLOGICAL INFORMATION

Aquatic Toxicity
69011-36-5 Isotridecaanol, 3-5 EO
EC20 (72hr) 0.979 mg/L (Desmodesmus subspicatus)

· **Persistence and Degradability :** No further relevant information available.
· **Bioaccumulative potential** No further relevant information available.
· **Mobility in soil** No further relevant information available.
· **Additional ecological information:**
· **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

· Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.
· **Other adverse effects** No further relevant information available.

SECTION XIII. DISPOSAL CONSIDERATIONS

Waste treatment methods
· **Recommendation**
If utilisation or recycling of the product is not possible, it should disposed off according to the local regulations and laws, e.g. by incineration in a suitable plant
· **European waste catalogue 04 02:** Wastes from the textile industry

· **Uncleaned packaging:**
· **Recommendation:** Disposal must be made according to official regulations.

SECTION XIV. TRANSPORTATION INFORMATION

· UN-Number
· ADR, ADN, IMDG, IATA Not Applicable

· UN proper shipping name
· ADR, ADN, IMDG, IATA NotApplicable

· Transport hazard class(es)
· ADR, ADN, IMDG, IATA Class Not Applicable

· Packing group
· ADR, IMDG, IATA Not Applicable

· Environmental hazards:
· Marine pollutant: Not Applicable

· Special precautions for user Not applicable

· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable

· UN "Model Regulation" Not applicable

SECTION XV. REGULATORY INFORMATION

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**
· **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
· **Hazard pictograms** GHS05
· **Signal word** Danger
· **Hazard-determining components of labelling:**
Isotridecaanol, 3-5 EO
· **Hazard statements**
H319 Causes serious eye irritation.

· **Precautionary statements**

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.

· **Directive 2012/18/EU**
· **Named dangerous substances -** ANNEX I None of the ingredients is listed.

· **National regulations:**

· **Other regulations, limitations and prohibitive regulations**
User to follow national laws and regulations.

· **Substances of very high concern (SVHC) according to REACH, Article 57**
The ingredients of preparation are not listed as SVHC.

· **15.2 Chemical safety assessment:**
A Chemical Safety Assessment has not been carried out.

SECTION XVI. OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**
H302 Harmful if swallowed.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.
H412 Harmful to aquatic life with long lasting effects.

· **Department issuing MSDS:**
Product safety department.
· **Contact:**
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Mr. Shaunak Mehta : shaunak@unitedspecialities.com

Laboratory: lab@unitedspecialities.com

· **ABBREVIATIONS AND ACRONYMS:**
ADR: Accord européen sur le transport des marchandises dangereuses par Route
(European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Acute Tox. 4: Acute toxicity, Hazard Category 4
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

· **Sources**
REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/ EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

European Waste Catalogue And Hazardous Waste List
Data from ECHA website for CAS: 69011-36-5
MSDS of BASF Corporation for Lutensol XL 90

*** Data compared to the previous version altered.**
Section 1: Identification of the substance/mixture and of the company/undertaking
Section 2: Hazard Identification
Section 3: Composition/information of ingredients
Section 4: First-aid measures.
Section 5: Fire-fighting measures
Section 6: Accidental Release measures
Section 7: Handling and storage.
Section 8: Exposure Controls/Personal protection.
Section 9: Physical and Chemical properties.
Section 10: Stability and Reactivity.
Section 11: Toxicological Information.
Section 12: Ecological Information.
Section 13: Disposal consideration.
Section 14: Transport Information
Section 15: Regulatory information
Section 16: Other information.