Safety Data Sheet

In accordance with REGULATION (EU) 2020/878 of 18 June 2020
Amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)

Revision Date: 22.01.2026 **Version: 6** **Date of Issue: 22.01.2026**

SECTION 1: Identification of the substance/mixture and of the company/undertaking		
1.1	**Product Identifier**	
	Chemical Name	**Luminophore SF 450 (NT)**
	CAS Number:	Not applicable since product is a mixture/formulation
	ECnumber	Not applicable since product is a mixture/formulation
	Registration number	Constituents in the mixture are registered within REACH and/or exempted due to low volume exemption (<1 ton threshold)
	Nanoform Confirmation	Not applicable for liquid products
	UFI (Unique Formula Identifier)	C6G0-X048-300F-P1RY
1.2	**Relevant identified uses of the substance or mixture and uses advised against**	
	Relevant identified Uses of the substance	Used as an optical brightening agent for textiles.
	Uses advised against (where applicable)	No relevant information available
1.3	**Detailsofthesupplierofthesafetydatasheet**	
	Manufacturer/ Supplier:	United Specialities (P) Ltd. 501, Man Excellenza, Opposite Pawan Hans, S.V. Road, Vile Parle (West) |Mumbai 400056, INDIA Tel No: +91-22-26138053/ 46006689/ 46086690/ 46086691
	Further information obtainable from:	**Product safety department** Mr. Devansh Valia: dvv@unitedspecialities.com Mr. Shaunak Mehta: shaunak@unitedspecialities.com **OR Details:** Sustainability Support Services (Europe) AB Ideon Science Park, Scheelevägen 17, Beta 5 |223 70 Lund, Sweden
1.4	**Emergency telephone number:**	Emergency telephone number of Manufacturer: +91-22-26138053/ 46006689/ 46086690/ 46086691. Other Comments (e.g., language(s) of the phone service): English
SECTION 2: Hazards identification		
2.1	**Classification of the substance/mixtureaccording to Regulation (EC) No: 1272/2008 i.e., CLP**	
	Classification as per CLP regulation	▪ Eye Irrit. 2
2.2	**Labelelements**	
	Labelingaccordingto Regulation (EC)No 1272/2008	

		GHS07
	Signal word	WARNING
	Hazard statements	H319: Causes serious eye irritation
	Precautionary statements	P273: Avoid release to the environment. 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.
2.3	**Otherhazards:**	
	PBT:	No data available for mixture
	vPvB:	No data available for mixture
	SVHC	The constituents of the formulation are not listed as SVHC till date
	Endocrine disrupting property	None of the constituent in the mixture are listed in ECHA's endocrine disruptor assessment list, till date.
SECTION 3: Composition/information on ingredients		
3.2	**Chemical characterization: Mixture/Formulation**	
	Mixture CAS No.	Not applicable since the product is a formulation

		Ingredient identity	**Composition**	**Ingredient classification according to CLP**	**Concentration Limit % (SCL)/ M-factor/ ATE**
	Hazard determining constituents in the mixture.	**CAS No**: 166736-08 -9 **EC No**: 605-450-7 **Chemical Name**: 2-propylheptanol ethoxylated, propoxylated **Index No:** Not available **Registration No:** Total EU tonnage is < 1 t/a.	1.50%	Acute Tox. 4 (oral) Eye Dam. 1	Not available
		CAS No: 69011-36-5 **EC No**: 500-241-6 **Chemical Name**: Isotridecanol, ethoxylated **Index No:** Not available **Registration No:** Total EU tonnage is < 1 t/a.	1.00%	Eye Irrit. 2B	Not available
		CAS No: 2634-33-5 (>= 20 - < 25) & 1310-73-2 (>= 5 - < 10) **EC No**: 220-120-9 & 215-185-5	0.03% (CAS 2634-33-5) & 0.0123% (CAS 1310-	**CAS 2634-33-5** Acute Tox. 4 (oral) Skin Irrit. 2 Eye Dam. 1	Skin Sens. 1; H317: **C ≥ 0.036 %**

		Chemical Name: 1,2-benzisothiazol-3(2H)-one & Sodium hydroxide **Index No**: 613-088-00-6 & 011-002-00-6 **Registration No**: Covered by supplier's registration	73-2)	Skin Sens. 1 Aquatic Acute 1 **CAS 1310-73-2** Skin Corro. 1A	CAS 1310-73-2 Eye Irrit. 2; H319: 0,5 % ≤ C < 2 % Skin Corr. 1A; H314: C ≥ 5 % Skin Corr. 1B; H314: 2 % ≤ C < 5 % Skin Irrit. 2; H315: 0.5 % ≤ C < 2 %
		CAS No: 64-19-7 **EC No**: 200-580-7 **Chemical Name**: Acetic acid **Index No:** 607-002-00-6 **Registration No:** Covered by supplier's registration	0.50%	Flam. Liq. 3 Skin Corr. 1A	Eye Irrit. 2: 10 % ≤ C < 25 % Skin Corr. 1A: C ≥ 90 % Skin Corr. 1B: 25 % ≤ C < 90 % Skin Irrit. 2: 10 % ≤ C < 25 %
	Ingredient nanoparticle characteristics as per Annex VI of regulation:	Not applicable			
SECTION 4: First aid measures					
4.1	**Descriptionoffirstaidmeasures**				
	General information:	Immediately remove any clothing soiled by the product. Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area			
	After inhalation:	If chemical is inhaled, move person into fresh air. Keep at rest. If not breathing, give artificial respiration. Consult a physician immediately.			
	After skin contact:	Remove any contaminated clothing. Wash skin with soap and water for at least 15 minutes. Get medical attention if irritation develops/ persists. Wash clothing before reuse.			
	After eye contact:	Rinsethoroughlywithplentyofwaterfor atleast15minutes. Consult an ophthalmologist immediately.			
	After swallowing:	Rinse mouth with water immediately (only if the person is conscious). Seek medical advice. Do not induce vomiting.			
4.2	**Most important symptoms and effects, both acute and delayed**	Causes eye irritation.			
	Informationfordoctor:	Treatsymptomaticallyandsupportively.			
4.3	**Indication of any immediate medical attention and special**	Follow instructions given in section 4.1 in case of skin and eye contact.			

	treatment needed	
SECTION 5*:* Firefighting measures		
5.1	**Extinguishing media**	
	Suitable extinguishing media:	Use fire extinguishing methods suitable to surrounding conditions. CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
	Unsuitable extinguishing media:	High volume water jet
5.2	**Special hazards arising from the substance**	Emits toxic fumes of carbon oxides, nitrogen oxides and sulphur compoundsunder fire conditions.
5.3	**Advice for fire fighters**	
	Protective equipment:	Wear proper protective equipment&clothing to prevent contact with skin and eyes. Wear self-contained breathing apparatus.
	Additional information	Avoid inhalation of fumes or vapors.
SECTION 6: Accidental release measures		
6.1	**Personal precautions, protective equipment and emergency procedures**	For non-emergency personnel: Avoid breathing vapors, mist or gas. Ensure adequateventilation. Avoid contact with the skin, eyes and clothing. Keep unprotected persons away. For emergency responders: Use personal protective equipment. Evacuate personnel to safe areas.
6.2	**Environmental precautions:**	Do not allow product to reach sewage system or any water course. Do not allow to penetrate the ground/soil.
6.3	**Methods and material for containment and cleaning up**	Soak up with inert absorbent material (e.g., sand, silica gel, acid binder, universal binder, sawdust). Sweep up and shovel. Use a spark-proof tool.Keep in suitable and closed containers for disposal in accordance with applicable laws and regulations.
6.4	**Reference to other sections**	See Section 8 for information on personal protection equipment. See Section 13 for disposal information.
SECTION 7: Handling and storage		
7.1	Precautions for safe handling	Ensure good ventilation/exhaust at the workplace Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Handle in accordance with good industrial hygiene and safety practice. Do not leave container open
	Information about fire and explosion protection:	Keep ignition sources away –Do not smoke. Keep away from combustible material. Protect against electrostatic charges.
7.2	Conditions for safe storage, including any incompatibilities	
	Storage:	

	Requirements to be met by storerooms and receptacles:	Store in roofed places at ambient temperature Storeproduct in its original container. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
	Information about storage in one common storage facility:	Store away from incompatible materials such as strong acids, alkali or oxidizing agents.
	Further information about storage conditions:	Store in roofed places at cool, ambient temperature.
7.3	Specific end use(s)	Used as an optical brightening agent for textiles.
SECTION 8: Exposure controls/personal protection		
	Additional information about design of technical facilities:	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor below their respective threshold limit value. Ensure that eyewash station and safety shower is proximal to the work-station location.
8.1	**Control parameters**	
	Ingredients with limit values that require monitoring at the work place:	**Acetic acid** 8-hourexposure limit: 25 mg/m^3 (10 ppm) Short term exposure limit: 50 mg/m^3 (20 ppm) **Acetic acid is present in very low percentage in the final mixture hence and does not require monitoring.**
8.2	**Exposure controls**	
	General protective and hygienic measures:	Keep away from foodstuffs, beverages and feed. 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:	Follow European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
	Protection of hands:	Protectivegloves The glove material has to be impermeable and resistant to the product. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
	Material of gloves	Nitrile gloves, butyl rubber gloves are preferred over latex because of their chemical resistance, their tendency to visibly rip when punctured, and to prevent possible latex allergies
	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:	Safety goggles
	Body protection:	Impervious clothing, Apron, Boots
SECTION 9: Physical and chemical properties		
9.1	Information on basic physical and chemical properties	
	Form:	Liquid
	Colour:	Yellow
	Odour:	Characteristic
	pH	4.5 – 5.5
	Melting point	Not applicable since the product is liquid
	Boiling point	No available data
	Flashpoint:	>100ºC
	Flammability	Not flammable
	Auto ignition temperature	Not applicable since the product is an aqueous formulation
	Explosiveness	Not explosive
	Oxidizing properties	No available information
	Vapour pressure:	Not applicable since the product is an aqueous formulation
	Density:	No available data
	Solubilityin/Miscibility with Water at23 °C:	Miscible in water
	Partition coefficient(n-octanol/water) at 20 °C:	No available data
	Viscosity	Not determined
9.2	Other information	
9.2.1	Information regarding physical hazard classes	Not applicable
9.2.2	Other safety characteristics	No further relevant information
SECTION 10: Stability and reactivity		
10.1	Reactivity	Reacts with oxidising agents, strong acids and alkalis.
10.2	Chemical stability	No decomposition if used according to specifications
10.3	Possibility of hazardous reactions	Product does not exhibit any dangerous reactions under normal conditions.
10.4	Conditions to avoid	Avoid freezing temperatures
10.5	Incompatiblematerials	Strong oxidizing agents, strong acids and alkalis

	:	
10.6	Hazardous decomposition products:	No hazardous decomposition products if stored and handled as prescribed Hazardous decomposition products formed under fire conditions. – Carbon, nitrogen and sulphur oxides
SECTION 11: Toxicological information (Mixture)		
11.1	Information on toxicological effects	
	Acute toxicity: LD/LC50 values relevant for classification:	Oral | LD50 | ATEmix = > 2000 mg/kg bw. (Considering the concentration limit of classified ingredients in mixture) Inhalation (dust) | LC50 | No data available for mixture Dermal | LD50 | No data available for mixture
	skin corrosion/irritation	Not classified
	serious eye damage/irritation	Causes eye irritation (Category 2) (Considering the concentration limit of classified ingredient in mixture)
	Sensitization:	Not classified (Considering the concentration limit of classified ingredient in mixture)
	Germ cell mutagenicity	No data available for mixture
	Carcinogenicity	Ingredients not listed as a carcinogen in IARC
	Reproductive toxicity	No data available for mixture.
	Repeated dose toxicity (Oral)	No data available for mixture
	Repeated dose toxicity (Inhalation)	No data available for mixture
	Aspiration hazard.	No data available for mixture
11.2	Information on other hazards	
	Endocrine disrupting properties	Pl refer subsection 2.3 above
	Other information	No further relevant information available.
SECTION 12: Ecological information (Mixture)		
12.1	Toxicity	
	Aquatic toxicity:	Fish | LC50(96 hrs) | No available data. Invertebrate | EC50(48hrs) | No available data. Algae | EC50 (72 hrs) | >100 mg/L (as per the summation method of CLP)
12.2	Persistence and degradability	No data available for mixture
12.3	Bio-accumulative potential	No data available for mixture
12.4	Mobility in soil	No data available for mixture
	Additional ecological	Do not allow product to reach ground water, water course or sewage system.

	information	
12.5	Results of PBT and vPvB assessment	
	PBT	No data available for mixture
	vPvB	No data available for mixture
12.6	Endocrine disrupting properties	Constituents of the mixture are not listed in ECHA's endocrine disruptor assessment list, till date.
12.7	Otheradverseeffects	Not known as on date
SECTION 13: Disposal considerations		
13.1	Waste treatment methods	
	Recommendation	Do not allow product to reach sewage system. Disposalmustbemadeaccordingto local and national regulations.
	Un-cleanedpackaging:	
	Contaminated packaging	Empty containers must be decontaminated before returning for recycling
	Recommendation:	Disposal must be made according to official regulations.
	WGK class (German Regulation)	Water hazard class 1 (Self-assessment): slightly hazardous for water
SECTION 14: Transport information		
14.1	UN-Number ADR, IMDG, IATA	Not regulated for transport.
14.2	UN proper shipping name: ADR, IMDG, IATA	Not applicable
14.3	Transport hazard class(es): ADR, IMDG, IATA	Not classified as dangerous in the meaning of transport regulation
14.4	Packing group ADR, IMDG, IATA	Not applicable
14.5	Environmental hazards:	Marine Pollutant: No
14.6	Special precautions for user	Not applicable
14.7	Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable
SECTION 15: Regulatory information		
15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture	
	Labelingaccordingto Regulation (EC)No 1272/2008	
	Hazard pictograms	Please refer section 2
	Signal word	Please refer section 2

	Hazard determining components of labelling:	Please refer section 2
	Hazard statements	Please refer section 2
	Precautionary statements	Please refer section 2
	National regulations:	
	International Inventories	• Toxic Substances Control Act Inventory (TSCA) USA: Ingredients listed • Australian Inventory of Chemical Substances (AICS): Ingredients listed • Canada: Canada's DSL List: Ingredients listed • China: Inventory of Existing Chemical Substances in China (IECSC) –Ingredients listed • Japan: Inventory of Existing and New Chemical Substances (ENCS) –Ingredients listed • Korea: Existing Chemicals List (ECL) – Ingredients listed • New Zealand: New Zealand Inventory – Ingredients listed • Philippines: Philippine Inventory of Chemicals and Chemical Substances (PICCS) – Ingredients listed
	Substances of very high concern (SVHC) according to REACH, Article57	The known constituents of the formulation are not listed as SVHC, till date
	Ingredients listed in Annex XIV or Annex XVII of Regulation (EC) No 1907/2006	Constituents of the mixture not listed in Annex XIV or Annex XVII of Regulation (EC) No 1907/2006
15.2	Chemical safety assessment:	Chemical safety assessment has not been carried out for the mixture/formulation
SECTION 16: Other information		
	Department issuing SDS	Product Safety Department
	Contact:	Mr. Devansh Valia: dvv@unitedspecialities.com
16 (a)	Data compared to the previous version altered.	Section 2: Hazards identification Section 3: Composition /Information on Ingredients Section 12: Ecological Information. Section 16: Other Information
16 (b)	Abbreviations and acronyms:	• RID: Règlement international concernant le transport des marchandisesdangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) • IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organization • ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

		• ADR: Accord européensur le transport des marchandisesdangereuses 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 Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances • CAS: Chemical Abstracts Service (division of the American Chemical Society) • NOAEL = No observed adverse effect level
16 (c)	Sources	• REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on classification, labelling and packaging of substances and mixtures • Calculation method as per above regulation used to arrive at the classification of the pigment mixture • REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC • Registered dossier of the optical brighteners at ECHA CHEM • SDS of raw materials • https://www.chemradar.com/

Disclaimer: *The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.*