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MATERIAL SAFETY DATA SHEET

SOLVENT YELLOW 160:1

SECTION 1: Identification of the substance/mixture and of the company/undertaking		
1.1	**Product Identifier**	
	Chemical Name	3-(5-chlorobenzoxazol-2-yl)-7-(diethylamino)-2-benzopyrone (Trade Name: Solvent Yellow 160:1)
	CAS Number:	35773-43-4
	EC number	252-722-2
	REACH Registration number	Not available
1.2	**Relevant identified uses of the substance or mixture and uses advised against**	
	Relevant identified Uses of the substance	▪ This product is suitable dyeing of polyester, acetate, triacetate, and polyamide fibers ▪ It is also used to produce high visibility shades on polyester fibers.
	Uses advised against (where applicable)	No relevant information available
SECTION 2: Hazards identification		
2.1	**Classification of the substance**	
	Classification according to Regulation (EC) No : 1272/2008 i.e. CLP regulation	▪ Not classified (Registered Classification)
2.2	**Label elements**	
	Labeling according to Regulation (EC)No 1272/2008	Hazard pictogram: Not applicable
	Signal word	Not applicable
	Hazard statements	Not applicable
	Precautionary	P273: Avoid release to the environment.

	statements	P280 Wear protective gloves/protective clothing/eye protection/face protection. P391: Collect spillage. P501: Dispose of contents/container to an approved waste disposal plant in accordance with local/regional/national /international regulations.
2.3	**Other hazards:** No further information	
	PBT:	No data
	vPvB:	No data
	SVHC	The substance is not listed as SVHC
SECTION 3: Composition/information on ingredients		
3.1	**Chemical characterization:**	
	CAS No. Description	35773-43-4 3-(5-chlorobenzoxazol-2-yl)-7-(diethylamino)-2-benzopyrone
	Identification number(s)	ECnumber:252-722-2
	Additional information:	% Purity: Minimum 99% (Trade Name: Solvent Yellow 160:1)
SECTION 4: First aid measures		
4.1	**Description of first aid measures**	
	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. Keep under medical surveillance. In case of problems: Hospitalize.
	After skin contact:	Remove any contaminated clothing. Wash skin with soap and water for at least 15 minutes. Get medical attention if irritation develops or persists. Wash clothing before reuse.
	After eye contact:	Rinse thoroughly with plenty of water for atleast15minutes, occasionally lifting upper and lower eyelids. Consult an ophthalmologist.
	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**	No further relevant information
	Information for doctors:	Treat symptomatically and supportively.
4.3	**Indication of any immediate medical attention and special treatment needed**	Follow instructions given in section 4.1 in case of skin and eye contact.
SECTION 5*: Firefighting measures*		
5.1	**Extinguishing media**	
	Suitable extinguishing media:	Use fire extinguishing methods suitable to surrounding conditions. Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.
	Unsuitable	No relevant information available

	extinguishing media:	
5.2	**Special hazards arising from the substance**	Emits toxic fumes of carbon monoxide, carbon dioxide, nitrous oxide under fire conditions.
5.3	**Advice for firefighters**	
	Protective equipment:	Wear proper protective equipment clothing to prevent contact with skin and eyes. Wear self-contained breathing apparatus.
	Additional information	Prevent dust formation due to risk of dust explosion.
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 adequate ventilation. 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, drains 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. Avoid dust formation. Keep in suitable and closed containers for disposal in accordance with applicable laws and regulations. For large spills: Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.
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 Ventilate empty vats and tanks well before entering.
	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 product in its original container. Keep container tightly closed in 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	Store away from incompatible materials such as strong acids, alkali, or oxidizing agents.

	facility:	
	Further information about storage conditions:	Store in cool, dry conditions in tightly sealed receptacles; away from direct sunlight.
7.3	Specified(s)	▪ This product is suitable for dyeing of polyester, acetate, triacetate, and polyamide fibers ▪ It is also used to produce high visibility shades on polyester fibers.
SECTION 8: Exposure controls/personal protection		
	Additional information about design of technical facilities:	Provide exhaust ventilation or other engineering controls at machinery 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 workplace:	Not applicable
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:	Suitable respiratory protective device recommended.
	Protection of hands:	 Protective gloves The glove material must 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	PVC gloves
	Penetration time of glove material	The exact break through time must be found out by the manufacturer of the protective gloves and must be observed.
	Eye protection:	As a good practice, tightly sealed goggles Face shield.
	Body protection:	Impervious clothing, Apron, Boots
SECTION 9: Physical and Chemical properties		
9.1	Information on basic physical and chemical properties	
	Form:	Solid, powder
	Color:	Yellow
	Odor:	Organic
	pH	5-7, for 1% dye solution
	Melting point	203.2 °Cat 101 325 Pa

	Boiling point:	Not applicable since substance is a solid which decomposes before boiling	
	Flashpoint:	Not applicable since flash point is only relevant to liquids and low melting point solids	
	Flammability	Non-flammable	
	Auto ignition temperature	190°Cat 101 325 Pa	
	Danger of explosion:	Nonexplosive	
	Oxidizing properties	No oxidizing properties because there are no chemical groups present in the molecule which are associated with oxidizing properties	
	Vapor pressure:	4.6×10^{-8} Pa at 20 °C	
	Density at 20 °C:	Relative density at 20 °C = 1.44	
	Solubility in / Miscibility with Water at 20 °C:	< 0.012 mg/L	
	Partition coefficient (n-octanol / water) at 25°C:	Log Pow = 4.9	
	Viscosity	Not applicable	
9.2	Other information	No further relevant information	
SECTION 10: Stability and reactivity			
10.1	Reactivity	Reacts with oxidizing agents, strong alkalis.	
10.2	Chemical stability– Thermal decomposition / conditions to be avoided:	Stable under normal conditions of use and recommended storage conditions. Thermal decomposition: No thermal decomposition when stored and handled correctly.	
10.3	Possibility of hazardous reactions	No hazardous reaction when used as directed.	
10.4	Conditions to avoid	Heat, open flames, sparks, and other sources of ignition.	
10.5	Incompatible materials:	Strong oxidizing agents, strong acids, and alkalis	
10.6	Hazardous decomposition products:	carbon monoxide and carbon dioxide, nitrogen oxides (NOx)	
SECTION 11: Toxicological information			
11.1	Information on toxicological effects		
	Acute toxicity: LD/LC50 values relevant for classification:		
	Oral	LD50	>5000 mg/kg bw (male rat)
	Inhalation	LC50 (6 hours)	No data
	Dermal	LD50	No data
	skin corrosion / irritation	Not irritating (Rabbit)	

	serious eye damage / irritation	Not irritating (Rabbit)	
	Sensitization:	Not sensitizing (QSAR)	
	Germ cell mutagenicity (In vivo)	No indication of a clastogenic effect at 10000 mg/kg bw test substance in the micronucleus test in the mouse was observed. The substance is not considered to be a lactogen in Mammalia.	
	Carcinogenicity	Not listed as a carcinogen by IARC	
	Reproductive toxicity	No data	
	Developmental toxicity	No data	
	Repeated exposure (Oral)	No data	
	Aspiration hazard.	No data	
SECTION 12: Ecological information			
12.1	**Toxicity**		
	Aquatic toxicity*:*	LC50(96 hrs)Fish	No experimental data
		EC50(24hrs) Invertebrate (Daphnia magna)	The 24-h EC50 was calculated as geometric mean value of EC0 and EC100 at 5632 mg/L (nominal). The effect values are far above the water solubility limit.
		EC50 (72hrs) (Algae)	No data
12.2	**Persistence and degradability**	Under test condition, no biodegradation observed	
12.3	**Bio-accumulative potential**	124.1 L/kg ww (Predicted value)	
12.4	**Mobility in soil**	Soil adsorption co-efficient = EPI SUITE value = 13000 (Log Koc=4.1139)	
	Additional ecological information: General notes:	Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.	
12.5	Results of PBT and vPvB assessment		
	PBT	No data	
	vPvB	No data	
12.6	Other adverse effects	No further relevant information available.	
SECTION 13: Disposal considerations			
13.1	Waste treatment methods		
	Recommendation	The generation of waste should be avoided or minimized wherever possible. Incinerate according to applicable local, state, and federal regulations. European waste catalogue 07 03: Wastes from the Manufacture, Formulation, Supply and Use (MFSU) of organic dyes and pigments.	
	Un-cleaned packaging:		
	Contaminated	Empty containers must be decontaminated before returning for recycling	

	packaging	
	Recommendation:	Do not release into the environment. Destroy packaging by incineration at an approved waste disposal site in accordance with local and national regulations.
SECTION 14: Transport information		
14.1	UN-Number ADR, IMDG, IATA	Not applicable
14.2	Un proper shipping name ADR IMDG, IATA	Not applicable
14.3	Transport hazard class(es) **ADR, IMDG, IATA**	Not considered as hazardous 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	Follow good chemical handling practice
14.7	Transport in bulk according to AnnexII of MARPOL 73/78 and the IBC Code	Not applicable.
	Transport: Additional Information	
	Transport category Tunnel restriction code	Not applicable None
	UN “Model Regulation”	Not applicable
SECTION 15: Regulatory information		
15.1	Safety, health, and environmental regulations/ legislation specific for the substance or mixture	
	Labeling according to Regulation (EC)No 1272/2008	
	Hazard pictograms	Please refer section 2
	Signal word	Please refer section 2
	Hazard-determining components of labeling:	Please refer section 2
	Hazard statements	Please refer section 2
	Precautionary statements	Please refer section 2
	National regulations:	
	International Inventories	• Canada: Canada's DSL List: Listed • US Federal (TSCA Inventory): Listed • US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): substance - Not listed. • China: Inventory of Existing Chemical Substances in China (IECSC) – Listed

		• Japan: Inventory of Existing and New Chemical Substances (ENCS) –Listed • Korea: Existing Chemicals List (ECL) – Listed • New Zealand: New Zealand Inventory – Listed • Philippines: Philippine Inventory of Chemicals and Chemical Substances (PICCS) – Listed
	Substances of very high concern (SVHC) according to REACH,Article57	The substance is not listed as SVHC
15.2	Chemical safety assessment:	A chemical safety assessment has not been carried out.
SECTION 16: Other information		
	Department issuing's	Product safety department.
	Contact:	Contact: Mr. Vijay Mehra Email: veetohobbies@hotmail.com Mob: 7027002328/29/75
16 (a).	Data compared to the previous version altered.	Section 1: Identification of the substance/mixture and of the company/undertaking Section 2: Hazards identification Section 3: Composition /Information on 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 Considerations Section 14: Transport Information Section 15: Regulatory Information Section 16: Other Information
16 (b).	Abbreviations and acronyms:	• RID: Règlement international concernant le transport des merchandises danger uses 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 merchandises danger uses 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) • LD50: Lethal dose resulting in 50% mortality of test organism • LC50: Lethal concentration resulting in 50% mortality of test organism • EC50: Effective concentration resulting in 50% mortality of test organism • NOAEL: No observed adverse effect level • NOEC: No observed effect concentration • BCF: Bio-concentration factor
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 • REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE Council of 18 December 2006concerning the Registration, Evaluation, Authorization 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 • https://echa.europa.eu/registration-dossier/-/registered-dossier/22376/1 • https://chem.nlm.nih.gov/chemidplus/rn/35773-43-4 • USEPA's EPI Suite Calculator Model • http://apciss.cirs-group.com/

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