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MATERIAL SAFETY DATA SHEET

SOLVENT YELLOW - 145

SECTION 1: Identification of the substance/mixture and of the Company/Undertaking		
1.1	Product Identifier	
	Chemical Name	3-(1H-benzimidazol-2-yl)-7-(diethylamino)-2-benzopyrone Trade Name: Solvent Yellow 145
	CAS Number	27425-55-4
	EC number	248-451-4
1.2	Relevant identified uses of the substance or mixture and uses advised against	
	Relevant identified Uses of the substance	Used in making of ink, polyester fiber, textiles, plastics and fluorescent color
	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	<ul style="list-style-type: none">Not classified (Registered Classification)
2.2	Label elements	
	Labeling according to Regulation(EC)No 1272/2008	Hazard pictograms: Not applicable

	Signal word	Not applicable
	Hazard statements	Not applicable
	Precautionary statements	P273: Avoid release to the environment. 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	Substance is not PBT
	vPvB	Substance is not vPvB
	SVHC	The substance is not listed as SVHC
SECTION 3: Composition/Information on Ingredients		
3.1	Chemical characterization:	
	CAS No. Description	27425-55-4 3-(1H-benzimidazol-2-yl)-7-(diethylamino)-2-benzopyrone
	Identification number(s)	EC number: 248-451-4
	Additional information	% Purity : Min. 99% to 99.5% (Trade Name: Solvent Yellow 185 / 145 / N)
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 at least 15 minutes, 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 doctor	Treat symptomatically and supportively
4.3	Indication of any immediate medical attention	Follow instructions given in section 4.1 in case of skin and eye contact

	and special treatment needed	
SECTION 5: Fire Fighting 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 extinguishing media	No relevant information available
5.2	Special hazards arising from the substance	Emits toxic fumes of carbon monoxide and carbon dioxide 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 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 cool, dry conditions in tightly-sealed receptacles; away from direct sunlight.
7.3	Specific end use(s)	Used in making of ink, polyester fiber, textiles, plastics and fluorescent color
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 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	PVC gloves
	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	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	Liquid
	Colour	Yellowish
	Odour	Characteristic
	pH	6.21 (1% w/v dispersion)
	Melting point	Not applicable
	Boiling point	> 250 °C at 969.3 hPa
	Flashpoint	251 °C at 101 325 Pa
	Flammability	Non-flammable
	Auto ignition temperature	Not auto flammable
	Danger of explosion	Non explosive
	Oxidizing properties	No oxidising properties based on structure assessment.
	Vapour pressure	0.00000000007453 Pa (Danish QSAR, 2016)
	Density at 20 °C	Relative density at 20 °C = 0.39
	Solubility in/Miscibility with Water at 20 °C	sparingly soluble in water (Reaxy, 2016).
	Partition coefficient(n-octanol/water) at 23°C	Log Pow = 3.68 (Danish QSAR, 2016).
	Viscosity	Not applicable
9.2	Other information	No further relevant information
SECTION 10: Stability and Reactivity		
10.1	Reactivity	Reacts with oxidising 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	> 2000 mg/kg bw (rat)
	Inhalation	LC50 (6 hours)	No data
	Dermal	LD50	No data
	skin corrosion/irritation	Not irritating (QSAR prediction)	
	serious eye damage/irritation	Not irritating	
	Sensitization:	Not sensitizing	
	Germ cell mutagenicity	Not mutagenic	
	Carcinogenicity	Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65	
	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	8.519 mg/L (EPI suite, 2016 ECOSAR version)
		EC50 (24 hrs)	32.3 mg/L (QSAR prediction model)
		EC50 (72 hrs)	15.95 mg/L (QSAR prediction model)
12.2	Persistence and degradability	Readily biodegradable (QSAR prediction model)	
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	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.	

	information General notes	
12.5	Results of PBT and vPvB assessment	
	PBT	The substance is not PBT
	vPvB	The substance is not vPvB
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 packaging	Empty containers must be decontaminated before returning for recycling
	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 applicable
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
	Not Applicable	
14.7	Transport in bulk according to Annex II of MARPOL73	Not applicable

	/78 and the IBC Code	
	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	<ul style="list-style-type: none"> • Canada : Canada's NDSL 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) – Not listed • New Zealand: New Zealand Inventory – Listed • Philippines: Philippine Inventory of Chemicals and Chemical Substances(PICCS) – Not 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 MSDS	Product safety department
	Contact:	Mr. Vijay Mehra Mob: 7027002328/29/75

16 (a)	Data compared to the previous version altered	<p>Section 1: Identification of the substance/mixture and of the company/undertaking</p> <p>Section 2: Hazards identification</p> <p>Section 3: Composition /Information on Ingredients</p> <p>Section 4: First-aid measures</p> <p>Section 5: Fire-fighting measures</p> <p>Section 6: Accidental Release measures</p> <p>Section 7: Handling and storage</p> <p>Section 8: Exposure Controls/Personal protection</p> <p>Section 9: Physical and Chemical properties</p> <p>Section 10: Stability and Reactivity</p> <p>Section 11: Toxicological Information</p> <p>Section 12: Ecological Information</p> <p>Section 13: Disposal Considerations</p> <p>Section 14: Transport Information</p> <p>Section 15: Regulatory Information</p> <p>Section 16: Other Information</p>
16 (b)	Abbreviations and acronyms	<ul style="list-style-type: none"> • RID: Règlement international concernant le transport des marchandises dangereuses 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 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 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)
16 (c)	Sources	<ul style="list-style-type: none"> • 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 2006 concerning 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 • https://echa.europa.eu/registration-dossier/-/registered-dossier/17346/5/5/2 • https://echa.europa.eu/information-on-chemicals/cl-inventory-database/-/discli/details/21252 • http://apciss.cirs-group.com/

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