

Material Safety Data Sheet

1. Identification of substance / preparation and of the company / undertaking													
<p>Product Details Nir Yellow 12 (Benzidene) Manufacturer / Supplier COLOURTECH INDUSTRIES</p> <p>Factory Address: Colourtech Industries Plot No. Ex. 12, Opp. CETP, 1st Phase, GIDC, Vapi - 396 195 Valsad Dist., (Gujarat), INDIA. email: colourtechvapi@gmail.com phone: +91 260 2434771 / 2433771</p>													
2. Hazards Identification													
<p>Hazard designation Information pertaining to particular dangers for man and environment Classification System Additional Information Transport classification</p>	<p>Not classified as hazardous. Non hazardous to man and environment.</p> <p>None Risk of dust explosion. (See item 14)</p>												
3. Composition / Information on ingredients													
<p>Chemical characterization Identification number(s) Color Index Name C.I. Constitution No. CAS No. EINECS Number TSCA</p>	<p>Butanamide, 2, 2'-[(3,3'-dichloro [1,1'-biphenyl]-4-4'-diyl) bis (azo) bis [N-(2,4-dimethylphenyl)]-3-oxo-</p> <p>Pigment Yellow 13 21100 5102-83-0 225-822-9</p> <p>All components of the product are listed.</p>												
<p>Dangerous components</p> <table border="1"> <thead> <tr> <th>CAS No</th> <th>EINECS No</th> <th>Designation</th> <th>Percentage</th> <th>Index</th> <th>R-phrases</th> </tr> </thead> <tbody> <tr> <td colspan="6" style="text-align: center;">None</td> </tr> </tbody> </table>		CAS No	EINECS No	Designation	Percentage	Index	R-phrases	None					
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None													
4. First Aid Measures													
<p>General Information On inhalation On skin contact On contact with eyes On ingestion</p>	<p>No special measures required. If inhaled move to fresh air, aid in breathing. If necessary, get medical attention. Wash affected skin with soap and water. Flush eyes with plenty of flowing water. If irritation develops consult oculist. If swallowed, rinse mouth, drink plenty of water and induce vomiting. Get immediate medical attention.</p>												
5. Fire Fighting Measures													
<p>Suitable extinguishing agent/s Special exposure hazards Special protective equipment for fire-fighters</p>	<p>Water mist, Extinguishing powder, CO₂ After combustion likely chances of gases like oxides of Carbon and Nitrogen. May emit noxious and toxic fumes. Wear self contained breathing apparatus and wear full protective suit.</p>												
6. Accidental Release Measures													
<p>Personal safety precautions Measures for environmental protection Method for cleaning up / collecting</p>	<p>Do not ingest or breathe in. Avoid contact with eyes and skin. Prevent contamination of drains, surface waters, and soil. Pigment is generally insoluble in water. Collect mechanically. Dispose off contaminated material as waste according to item 13. Clean accident area carefully. Use warm water and cleaning agent.</p>												

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7. Handling and Storage	
Handling	Prevent formation of dust. Take precautionary measure against electrostatic charges – Earthing is necessary during loading operation. Avoid exposure to open flame or spark. Avoid contact with eyes and skin.
Storage	1) A moderately dry, well-ventilated area is considered to be adequate for handling and storage.
Specific Use	2) Protect from extreme heat and cold. Keep away from sources of ignition. Avoid dust formation. Used as coloring matter in inks.
8. Exposure Controls and Personal Protection	
Engineering Measures	Where suitable engineering controls are not fitted or are inadequate, wear suitable personal protective equipment.
Exposure limit values	4 mg/m ³ (MAK-Vf)
Total inhalable dust	1.5 mg/m ³ (MAK-Vf)
Respirable dust	Use safety goggles, aprons and gloves.
Suitable personal protective equipments	
Breathing equipment	Wear suitable respiratory protective equipment
Hand protection	Wear suitable gloves; Nitrile rubber.
Eye protection	Wear safety goggles, safety glasses or face shield.
Skin protection	Wear suitable, impervious clothing – overalls.
9. Physical and Chemical Properties	
Form	Powder
Color	Red
Odor	Odorless
pH (10g / 250ml H ₂ O)	6.5 – 8.5
Boiling point / Boiling range	Not applicable
Melting point / Melting range	360°C
Flash point	Not applicable
Ignition temperature	Not known
Flammability	Not applicable
Organic Solvents	EU / VOC 20°C : 0%
Danger of explosion	Product is not explosive. However, formation of air / dust mixture is possible.
Oxidizing property	Not applicable
Vapour pressure	Not applicable
Relative density	1.70± 0.1
Water solubility	Insoluble
Solvent solubility	Insoluble
Partition coefficient (n-Octanol / Water)	Not applicable
Viscosity	Not applicable
Vapour density	Not applicable
Evaporation rate	Not applicable
Auto ignition temperature	Not known
10. Stability and Reactivity	
Stability of product	This product is stable under normal storage condition.
Dangerous reaction	Risk of dust explosion.
Materials to avoid	Exposure to strong acids, bases and oxidizing agents should be avoided, which otherwise will cause discoloration. This does not affect the safety of the product.
Dangerous product of decomposition	Toxic gases / vapors may evolve.

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11. Toxicological Information (from data available in the public domain)	
<p>Acute toxicity Skin irritation Eyes irritation Inhalation Sensitisation Long term toxicity Mutagenicity</p> <p>Additional toxicology information</p>	<p>LD50/oral/rat - ≥ 5000 mg/kg Not irritant Not irritant No data. Unlikely to be hazardous by inhalation. Not a sensitizer. No data available. However no adverse effect in humans is expected at levels below the occupational exposure limit and when the product is handling and used according to recommendations. Negative When used and handled according to recommendations, the product does not have any harmful effects according to our experience and available information.</p>
12. Ecological Information	
<p>Other information Ecotoxicological effects - Toxicity to fish Toxicity to daphnids (acute) AOX indication (Remark – The product is anticipated to be substantially removed by mechanical treatment.) Mobility -Surface tension Absorption Desorption Elimination information (Persistence & Degradability)</p>	<p>Due to insolubility of the product in water a biodegradation is not likely.</p> <p>Data not available Data not available</p> <p>Not applicable Not applicable This pigment is considered to be generally insoluble in water, biodegradability is not likely.</p>
13. Disposal Information	
<p>Waste disposal should be carried out according to local, state or national legislation.</p>	
14. Transport Information	
<p>UN No. GGV IMDG Code RID / ADR ICAO / IATA-DGR Custom Tariff No.</p>	<p>None None None None 32041739 (This material is not dangerous for transportation)</p>
15. Regulatory Information (Classification according to EC Directives)	
<p>Designation according to EC guidelines Code letter and hazard designation of product Hazard Symbol / Classification R phrases S phrases</p>	<p>Not classified as “dangerous”. Not classified as “dangerous”. None None S22: Do not breathe dust.</p>