

1. Identification of substance / preparation and of the company / undertaking	
Product Name	<b>Sudafast™ Red 331</b>
Manufacturer / Supplier Informing Department	<b>Sudarshan Chemical Industries Limited</b> Eleven West Panchshil, 7 <sup>th</sup> Floor, Survey No. 25, Near PAN Card Club Road, Baner, Pune – 411 069, India. Telephone: +91 20 682 81 200; +91 20 682 97 610
Emergency Contact Name	Mr. Hemantkumar M. Thombare Global Product Stewardship Telephone: +91 20 682 81 200; +91 20 682 97 610 Mobile No.: +91 880 5987 096 Email : <a href="mailto:hmthombare@sudarshan.com">hmthombare@sudarshan.com</a>
2. Hazards Identification	
Hazard designation	Not classified as hazardous.
Information pertaining to particular dangers for man and environment	Non hazardous to man and environment.
Classification System	None
Additional Information	Risk of dust explosion.
Transport classification	(See item 14)
3. Composition / Information on ingredients	
Chemical characterization	2-Naphthalenecarboxamide,3-hydroxy-N-(2-methylphenyl)-4-[(2,4,5-trichlorophenyl)azo]-
Identification number(s)	
Color Index Name	Pigment Red 112
C.I. Constitution No.	12370
CAS No.	6535-46-2
EINECS Number	229-440-3
TSCA	All components of the product are listed.
Dangerous components	
<u>CAS No</u>	<u>EINECS No</u>
<u>Designation</u>	<u>Percentage</u>
	<u>Index</u>
	<u>R-phrases</u>
None	
4. First Aid Measures	
General Information	No special measures required.
On inhalation	If inhaled move to fresh air, aid in breathing. If necessary, get medical attention.
On skin contact	Wash affected skin with soap and water.
On contact with eyes	Flush eyes with plenty of flowing water. If irritation develops consult oculist.
On ingestion	If swallowed, rinse mouth, drink plenty of water and induce vomiting. Get immediate medical attention.
5. Fire Fighting Measures	
Suitable extinguishing agent/s	Water mist, Extinguishing powder, CO <sub>2</sub>
Special exposure hazards	After combustion likely chances of gases like oxides of Carbon and Nitrogen. May emit noxious and toxic fumes.
Special protective equipment for fire-fighters	Wear self contained breathing apparatus and wear full protective suit.

6. Accidental Release Measures	
Personal safety precautions	Do not ingest or breathe in. Avoid contact with eyes and skin.
Measures for environmental protection	Prevent contamination of drains, surface waters, and soil. Pigment is generally insoluble in water.
Method for cleaning up / collecting	Collect mechanically. Dispose off contaminated material as waste according to item 13. Clean accident area carefully. Use warm water and cleaning agent.
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. 2) Protect from extreme heat and cold. Keep away from sources of ignition. Avoid dust formation.
Specific Use	Used as coloring matter in Paints
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 <sup>3</sup> (MAK-Vf)
Total inhalable dust	1.5 mg/m <sup>3</sup> (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 <sub>2</sub> O)	7 - 8
Boiling point / Boiling range	Not known
Melting point / Melting range	290°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	1.40 ± 0.1
Water solubility	Insoluble
Solvent solubility	Insoluble
Partition coefficient	Not applicable

(n-Octanol / Water)	
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	Under fire condition, this material may emit irritating and toxic fumes including oxides of nitrogen and carbon
Conditions to Avoid	Not available.

**11. Toxicological Information (from data available in the public domain)**

Acute toxicity	LD50/oral/rat - $\geq 5000$ mg/kg
Skin irritation	Not irritant
Eyes irritation Inhalation	Not irritant
Sensitization	No data. Unlikely to be hazardous by inhalation.
Long term toxicity	Not a sensitizer.
Mutagenicity	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.
Additional toxicology information	Negative When used and handled according to recommendations, the product does not have any harmful effects according to our experience and available information.

**12. Ecological Information**

Other information	Due to insolubility of the product in water a biodegradation is not likely.
Ecotoxicological effects -	
Toxicity to fish	
Toxicity to daphnids (acute)	Data not available
AOX indication	Data not available
(Remark – The product is anticipated to be substantially removed by mechanical treatment.)	
Mobility -Surface tension	
Absorption	Not applicable
Desorption	Not applicable
Elimination information (Persistence & Degradability)	This pigment is considered to be generally insoluble in water, biodegradability is not likely.
Other information	Contains approx. 21-22% organically-bound halogen. This can increase AOX-value in water purification plants if it reaches the waters.

13. Disposal Information	
Waste disposal should be carried out according to local, state or national legislation.	
14. Transport Information	
UN No.	None
GGV IMDG Code	None
RID / ADR	None
ICAO / IATA-DGR	None
Custom Tariff No.	32041739 (This material is not dangerous for transportation)
15. Regulatory Information (Classification according to EC Directives)	
Designation according to EC guidelines	Not classified as "dangerous".
Code letter and hazard designation of product	Not classified as "dangerous".
Hazard Symbol / Classification	None
R phrases	None
S phrases	S22: Do not breathe dust.
16. Other Information	
<b>For Europe contact:</b>  Mr. Vincent Bembaron Sales Coordinator Sudarshan Europe B.V. Kingsfordweg 151 1043 GR Amsterdam The Netherlands Tel: +31-(0)20 491 9417 Fax: +31-(0)20 491 9415 Mob: 0031 618312829 Email: <a href="mailto:eu@sudarshan.com">eu@sudarshan.com</a>	<b>For USA contact:</b>  Mr. Frank Bursch President – North America Sudarshan North America Inc. 76 N. Walnut Street Ridgewood, N.J. USA 07450  Customer Service: 201-803-3236  Mobile: +1 (980) 226-0933 Email: <a href="mailto:fbursch@sudarshan.com">fbursch@sudarshan.com</a>
Information	
<p><i>"The data contained in this safety data sheet are based on our current knowledge, experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis nor Technical Data Sheet and should not be construed as Specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure compliance with existing laws &amp; legislations and observance of any proprietary rights as may be applicable. Due to possible changes in our products &amp; applicable national and international regulations and laws, the status of our products could change. It cannot be ruled out that this product contains particles &lt; 0.1 µm.."</i></p>	