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Material Safety Data Sheet

Liquid Reactive Turquoise LR410 50%

1) Product Identification

Liquid Reactive Turquoise LR410 50%

Emergency Telephone Numbers:

800-255-3924 ChemTel. (United States)

+ 1 01 813-248-0585 (Outside the United States)

HMIS code: 1 - 1 - 0 - C

Chemical family

phthalocyanine copper complex reactive dyestuff aqueous preparation

2) Hazardous ingredients

Copper-Phthalocyanine-Complex Content: < 55 % Dyestuff

Remarks

This product is not regulated under the OSHA hazard communication standard, 29CFR1910.1200. or SARA Title III Sect. 312

3) Hazards identification

Primary route of exposure

Inhalation: No Skin Absorption: No Ingestion: No

Skin Contact: Yes Eye Contact: Yes

Carcinogen status

IARC: No NTP: No OSHA: No ACGIH: No

Effects of overexposure

This product belongs to the class of Reactive dyestuffs. Occasional cases of respiratory sensitization have been observed by inhalation of certain Reactive dyestuffs. Sensitization by this product has not been observed. Nevertheless, avoid inhalation. Based on a similar product, this product was found to be a non-irritant when tested on skin and eyes of rabbits.

Signs and symptoms of overexposure

See effects of overexposure

Medical conditions aggravated

Persons with any pre-existing skin, eye or respiratory condition may be more susceptible to the effects of this product.

4) First aid measures

General information: Take off immediately all contaminated clothing.

After contact with eyes: Contamination of the eyes must be treated by thorough irrigation with water, with the eyelids held open. A doctor (or eye specialist) should be consulted immediately.

After contact with skin: Remove all contaminated clothing immediately, cleansing with plenty of water, soap or other non-irritating cleansing agents.

After ingestion: If the product is swallowed, the patient must at once drink water repeatedly, if possible with the addition of activated carbon. If the patient feels unwell, seek medical advice.

After inhalation: Upon inhalation of aerosol/vapor/dust: Take the patient into the fresh air; if there is difficulty in breathing, medical advice is required.

5) Fire-fighting measures

Suitable extinguishing media: water mist, foam, dry powder, CO₂

Special protective equipment for firefighting: Firemen have to wear self-contained breathing apparatus.

Further information: Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

6) Accidental release measures

Personal precautions: Use the necessary personal protection equipment during any work.

Environmental precautions: Do not empty into drains or waters.

Methods for cleaning up/taking up: Take up with absorbent material and fill into a closable container.

Additional information: For further disposal measures see chapter 13.

7) Handling and storage

Advice on safe handling: Close container immediately after use, avoid excessive heat. Do not allow to dry out.

Advice on protection against fire and explosion: No special measures against fire or explosion required.

Requirements for storage rooms and vessels: Store sealed in original container in a cool place.

8) Exposure controls/personal protection

General protective measures: Do not breathe vapor/spray. Avoid contact with eyes and skin. Take off immediately all contaminated clothing.

Inhalation of dust and aerosols must be absolutely prevented by either adequate ventilation or by a suitable mask. People with chronic respiratory problems should not work with reactive dyestuff powders. If symptoms such as tightness in the chest or asthma occur while handling reactive dyestuff powders, a physician should be consulted as soon as possible. If hypersensitivity is confirmed, all contact with reactive dyestuff powders must cease immediately.

Hygiene measures: Keep away from food and drink stuffs.

Do not eat, drink or smoke at work.

Wash hands before breaks and at end of work and use skin-protecting ointment.

Respiratory protection: If airborne concentrations pose a health hazard, become irritating, or exceed recommended limits, use a NIOSH approved respirator in accordance with OSHA respiratory protection requirements under 29 CFR 1910.134.

Hand protection: Wear suitable gloves e.g. of PVC or nitrile rubber. In the event of contamination, change protective gloves immediately. Avoid skin contact with the wetted surfaces of the protective gloves.

Eye protection: safety glasses with side protection shield

Body protection: Wear protective clothing.

9) Physical and chemical properties

Form: liquid

Color: dark-blue

Odor: odorless

Density: approx. 1.1 g/cm³ (20 DC)

pH value: approx. 4.5 - 6.5 (22 DC)
undiluted

Viscosity: < 25 mPa.s (22 DC) Method: Brookfield

% Volatile	Value: 0	Unit: %	Comment: as VOC's.
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10) Stability and reactivity

Thermal decomposition: No thermal decomposition when stored and handled correctly.

Hazardous reactions: No hazardous reaction when used as directed.

11) Toxicological information

Acute oral toxicity:	LD50 > 2,000 mg/kg (rat)
Irritant effect on skin:	non-irritant (rabbit)
Irritant effect on eyes:	non-irritant (rabbit eye)
Sensitization:	non-sensitizing (Guinea pig) This dye belongs to the class of reactive dyes. A sensitizing effect on the respiratory tract has been noted with some representatives of this substance class. No reports of ill effects provided product was correctly handled and processed.

12) Ecological information

Biodegradability:	20 - 60 % (Color decrease)
Biodegradability:	Method: Batch method If regulations are followed when introducing effluent into biological waste water treatment plants, no adverse effect on the degradation activity of activated sludge is to be expected.
Fish toxicity :	LC50 > 100 mg/l (96 h, Brachydanio rerio)
Bacteria toxicity:	EC50 > 100 mg/l (3 h, activated sludge)

Remarks: Product does not add to the AOX-value of the sewage. (DIN EN 1485) The product does not release nitrogen which can contribute to eutrophication. The product does not contain phosphates or organophosphorus compounds. This product contains approx. 1,6 % complex bonded copper.

13) Disposal considerations

Product: If utilization or recycling of the product is not possible, it should be disposed of according to the local regulations and laws, e. g. by incineration in a suitable plant.

Uncleaned packaging: Soiled, empty containers are to be treated in the same way as the contents.

14) Transport information

D.O.T. Information

CFR	Non-hazardous goods
IMDG	Non-hazardous goods
IATA_C	Non-hazardous goods
IATA_P	Non-hazardous goods

Other information Keep separated from foodstuffs.

15) Regulatory information

US Regulations TSCA

The components of this product are listed on the TSCA inventory.

Sara 313

This product contains the following component that is subject to the reporting requirements under 40 CFR 372.

Contains:

Copper-Phthalocyanine-Complex Content: 35 %

Dyestuff

Copper	Content: 1.6 %	CAS number: 7440-50-8
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Sara 312

Immediate (acute) health hazard No

Delayed (chronic) health hazard	No
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Fire hazard	No
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Sudden Release of Pressure	No
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Reactivity No

Other regulations

Labeling in accordance with the EEC directives:

SP281: Use personal protective equipment as required.

16) Other information

None of the products you purchase from this manufacturer are subject to the German Ordinance that bans certain azo dyes or the 19th Amendment of the Council Directive 76/769/EEC.

This information is based on our present state of knowledge. It should not therefore be construed as guaranteeing specific properties of the products described or their suitability for a particular application.