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MATERIAL SAFETY DATA SHEET

Liquid Reactive Red LR306 33%

Emergency Telephone Numbers:
800-255-3924 ChemTel. (United States)
+ 1 01 813-248-0585 (Outside the United States)

1. Product and company identification

Product name: Liquid Reactive Red LR306 33%
Material uses; Textile Dye
Chemical family; Azo dye preparation
Validation date: 7/9/2013

2. Hazards identification

Physical state: Liquid.
Odor: Odorless.
Color: Red.

OSHA/HCS status: While this material is not considered hazardous by the OSHA Hazard Communication Standard (29, CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.

Emergency overview: NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.

Avoid prolonged contact with eyes, skin and clothing.

See toxicological information (Section 11)

GENERAL INFORMATION: Read the entire MSDS for a more thorough evaluation of the hazards.

3. Composition/information on ingredients

No hazardous ingredient

4. First aid measures

Eye contact: Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if symptoms occur.

Skin contact: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if symptoms occur.

4. First aid measures

Inhalation: Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms occur.

Ingestion: Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.

Notes to physician: No specific treatment. Treat symptomatically. Call medical doctor or poison control center immediately if large quantities have been ingested.

5. Fire-fighting measures

Flash point:	Closed cup: >100 °C (>212 °F)
Hazardous thermal decomposition products:	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides halogenated compounds metal oxide/oxides

Extinguishing media

Suitable	Use an extinguishing agent suitable for the surrounding fire.
Not suitable	None known.
Special exposure hazards	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

Personal precautions:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment (see Section 8).
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Environmental precautions: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods for cleaning up:	Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth,
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vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

7. Handling and storage

Handling:

Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.

Storage:

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

8. Exposure controls/personal protection

Consult local authorities for acceptable exposure limits.

Recommended monitoring: If this product contains ingredients with exposure procedures: limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Engineering measures:

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Hygiene measures:

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protection

Respiratory:

In case of inadequate ventilation wear respiratory protection. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hands:

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Eyes: Safety eye wear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. Physical and chemical properties

Appearance

Physical state	: Liquid.
Color	: Red.
Odor	: Odorless.
pH	: 6 to 7 [Conc. (% w/w): 0.1 %]
Boiling/condensation point	: 100°C (212°F)
Melting/freezing point	: Not available.
Flash point	: Closed cup: .100°C (212°F)
Auto-ignition temperature	: Not available.
Explosive properties	: Not explosive.
Oxidizing properties	: None.
Vapor pressure	: Not available.
Specific gravity	: Not available.
Water solubility	: miscible
Partition coefficient: -n octanol/water (log Kow)	: -5.95
Density	: 1.1447 g/cm ³ [20°C (68°F)]
Vapor density	: Not available.
Evaporation rate	: Not available.

(butyl acetate = 1)

10. Stability and reactivity

Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Hazardous polymerization	: Under normal conditions of storage and use, hazardous polymerization will not occur.
Conditions to avoid	: No specific data.
Hazardous decomposition	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11 . Toxicological information

Acute toxicity

Product/ingredient name	Test	Endpoint	Species	Result
Liquid Reactive LR306 33%	-	LD50 Dermal	Rat	>2000 mg/kg
	-	LD50 Oral	Rat	>5000 mg/kg

Irritation/Corrosion

Conclusion/ Summary

Skin : Non-irritant. Rabbit OECD 404
Eyes : Non-irritant. Rabbit OECD 405

Sensitizer

Product/ingredient name	Test	Route of exposure	Species	Result
Liquid Reactive LR306 33%	OECD 406 Skin Sensitization	skin	Guinea pig	Not sensitizing

Conclusion/ Summary

Respiratory : Cases of respiratory sensitization have been observed with reactive dyes. Care should be taken to avoid inhalation. Should an individual become sensitized a physician should be consulted and all contact with reactive dyes must cease immediately.

Potential acute health effects

Inhalation : No known significant effects or critical hazards.
Ingestion : No known significant effects or critical hazards.
Skin contact : No known significant effects or critical hazards.
Eye contact : No known significant effects or critical hazards.

Potential chronic health effects

General : No known significant effects or critical hazards.
Target organs : No known significant effects or critical hazards.
Carcinogenicity : No known significant effects or critical hazards.
Mutagenicity : No known significant effects or critical hazards.
Teratogenicity : No known significant effects or critical hazards.
Developmental effects : No known significant effects or critical hazards.
Fertility effects : No known significant effects or critical hazards.
Medical conditions aggravated by over-exposure
None known.

12. Ecological information

Environmental effects : not readily biodegradable. This product shows a low bioaccumulation potential

Aquatic ecotoxicity

Product/ingredient name	Test	Endpoint	Exposure	Species	Result
Liquid Reactive LR306 33%	OECD 201 Alga, Growth	Acute EC50	72 hours	Algae	188 mg/l

Inhibition Test				
OECD 202 Daphnia sp.	Acute EC50	48 hours	Daphnia	>1000mg/l
Acute Immobilization Test				
-	Acute IC50	3 hours	Bacteria	>400mg/l
OECD 203 Fish, Acute	Acute LC50	96 hours	Fish	>1000mg/l
Toxicity Test				

Conclusion/Summary : Not toxic or harmful to aquatic organisms.

Persistence and degradability

Product/ingredient name	Test	Period	Result
Liquid Reactive LR306 33%	OECD 302B Inherent Biodegradability: Zahn-Wellens/EMPA Test	28 days	20 to 30 %

Conclusion/Summary : Partially eliminated by adsorption onto effluent treatment sludge.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Liquid Reactive LR306 33%	-	-	Not readily

Bioaccumulative potential

Product/ingredient name	Logpow	BCF	Potential
Liquid Reactive LR306 33%	-5.95	-	low

Other adverse effects : No known significant effects or critical hazards.

Other ecological information

BOD5 : 0 mgO₂/g
 CO : 280 mgO₂/g
 TOC : 9.7%
 Organohalogen content : <0.1 % Chloro
 Phosphorus Content : 0.3 % as phosphate
 Nitrogen Content : 3.5 %
 : Metal content under the ET AD recommended limits.

13. Disposal considerations

Waste disposal: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. Transport information

Proper shipping name

DOT : Not regulated.

TDG : Not regulated.

IMDG : Not regulated.

IATA : Not regulated.

Regulatory information	UN number	Classes	PG*	Label	Additional information
DOT Classification	Not regulated.	-	-	-	-
TDG Classification	Not regulated.	-	-	-	-
IMDG Class	Not regulated.	-	-	-	-
IATA-DGR Class	Not regulated.	-	-	-	-

PG* : Packing group

15. Regulatory information

United States

HCS Classification : Not regulated.

U.S. Federal regulations

TSCA 8(b) inventory : United States inventory (TSCA 8b): All components are listed or exempted.

TSCA 5(a)2 final : No ingredients listed.

significant new use rule (SNUR)

TSCA 5(e) substance : No ingredients listed.

consent order

TSCA 12(b) export : No ingredients listed.

notification

SARA 311/312 : Not classified.

Clean Air Act Section 112 : No ingredients listed.

(b) Hazardous Air

Pollutants (HAPs)

Clean Air Act - Ozone : This product does not contain nor is it manufactured with ozone depleting substances.

Depleting Substances (ODS)

SARA 313 : No ingredients listed.

CERCLA Hazardous substances

Components	Concentration %	Section 304 CERCLA Hazardous Substance	CERCLA Reportable Quantity (Lbs)	Product Reportable Quantity (Lbs)
Sodium hydroxide	0.0065	Listed	1000	15384615

State regulations

PENNSYLVANIA - RTK : No ingredients listed.

California Prop 65 : This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

International regulations

Canada

WHMIS (Canada) : Not controlled under WHMIS (Canada).

CEPA DSL : All components are listed or exempted.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

International lists

Australia inventory (AICS): All components are listed or exempted.

China inventory (IECSC): All components are listed or exempted.

Japan inventory: All components are listed or exempted.

Korea inventory: All components are listed or exempted.

Malaysia Inventory (EHS Register): Not determined.

New Zealand Inventory of Chemicals (NZIoC): At least one component is not listed. Philippines inventory (P.ICCS): All components are listed or exempted.

Taiwan inventory (CSNN): Not determined.

16. Other information

Label requirements : NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.

Hazardous Material

Information System (U.S.A.)	Health	0
	Flammability	1
	Physical hazards	0
	Personal protection	X

The customer is responsible for determining the PPE code for this material.

National Fire Protection

Association (U.S.A.)	Health	0
	Flammability	1
	Instability	0
	Special	X

Date of printing : 7/9/2013.

Date of issue : 7/9/2013.

Date of previous issue : 11/29/2011.

Version : 2

Indicates information that has changed from previously issued version.

Notice to reader

While the information and recommendations in this publication are to the best of our knowledge, information and belief accurate at the date of publication, NOTHING HEREIN IS TO BE CONSTRUED AS A WARRANTY, EXPRESS OR OTHERWISE.

IN ALL CASES, IT IS THE RESPONSIBILITY OF THE USER TO DETERMINE THE APPLICABILITY OF SUCH INFORMATION AND RECOMMENDATIONS AND THE SUITABILITY OF ANY PRODUCT FOR ITS OWN PARTICULAR PURPOSE.

THE PRODUCT MAY PRESENT HAZARDS AND SHOULD BE USED WITH CAUTION. WHILE CERTAIN HAZARDS ARE DESCRIBED IN THIS PUBLICATION, NO GUARANTEE IS MADE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

Hazards, toxicity and behavior of the products may differ when used with other materials and are dependent upon the manufacturing circumstances or other processes. Such hazards, toxicity and behavior should be determined by the user and made known to handlers, processors and end users.