



Safety Data Sheet (SDS)

according to 29CFR 1910.1200 (g) ANSI Z400.1Z129.1-2010
Engineered Wood Flooring

Section 1 IDENTIFICATION:

Trade Names	Rapid Loc®, Direct Loc®
Manufacturer's Information:	ZHEJIANG LAYO WOOD INDUSTRY CO., LTD
Manufacturer Address	No.1, Dayishu Road, Yuxin Town, Nanhu District, Jiaxing City, Zhejiang Province, China.
Emergency Phone:	(225) 341-4234
Additional Phone:	(225) 341-4488
Website:	www.customsurface.com
Email:	info@customsurface.com

Section 2 HAZARDS IDENTIFICATION:

2.1 Emergency Overview:

Appearance/Odor: Brown lath, light odor.

This product should not present a health hazard when used under reasonable conditions. But if contacted or inhaled the dust or fragments may cause eyes, skin and respiratory tract irritation.

2.2 OSHA Regulatory Status: This product is not considered hazardous by the OSHA hazard communication standard (29 CFR 1910.1200).

2.3 Potential Health Hazards:

Relevant routes of exposure: See Section 11 for more information.

Medical condition aggravated by exposure: N/A.

2.4 Potential Environmental Hazards: N/A.

2.5 Carcinogenicity: See Section 11.

Section 3 COMPOSITION, INFORMATION ON INGREDIENTS:

General Chemical Description: This chemical product is a mixture.
Composition, Information on Ingredients:

Chemical Name	CAS No.	Percent (by weight)	EC#
Wood	N/A	92.32%	N/A
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid	55818-57-0	2.64%	500-130-2
Urethane Acrylate	68083-84-1	2.64%	N/A
methyl-1,2-ethanediyl)bis[oxy (methyl-2,1-ethanediyl)] diacrylate	42978-66-5	1.6%	256-032-2
Talc (Mg3H2(SiO3)4)	14807-96-6	0.48%	238-877-9
hydroxycyclohexyl phenyl ketone	947-19-3	0.32%	213-426-9

Section 4 FIRST AID MEASURES:

4.1 First aid procedures by route of exposure:

Inhalation: If inhaled, remove to fresh air immediately. If breathing is difficult, given oxygen by trained professionals. If not breathing, give artificial respiration. Inhalation of the dust or fragments occurring in machining may cause respiratory tract irritation. Get medical aid immediately if feel unwell.

Skin: Repeated or prolonged contact of the dust or fragments occurring in machining may cause skin irritation or sensitization. Get medical aid immediately if feel unwell.

Eyes: In case of contact, rinse immediately with plenty of water for at least 15-30 minutes, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses if easily possible. DO NOT rub eyes with hand. Get medical aid immediately.

Ingestion: Ingestion of this material is unlikely. If swallowed, induce vomiting under the guidance of medical workers. Get medical aid immediately.

4.2 Most important acute and delayed symptoms/effects: See Section 11 for more information.

4.3 Antidotes: N/ A.

4.4 Note to Physicians: Treat symptomatically and supportively.

Section 5 FIRE FIGHTING MEASURES:

5.1 Flammable properties: N/A.

5.2 Extinguishing Media: Suitable extinguishing Media: In case of fire in the surroundings: use appropriate extinguishing media. Such as powder, water spray, foam, carbon dioxide and dry sand.

5.3 Protection of firefighters: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

5.4 Specific hazards arising from the chemical: May give off irritating or toxic gases/fumes in a fire.

5.5 Protective equipment and precautions for firefighters: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Approach fire from upwind to avoid hazardous vapors and toxic decomposition products. Move containers from fire area if this can be done without risk. Prevent runoff from fire control dilution from entering streams or drinking water supply.

Section 6 ACCIDENTAL RELEASE MEASURES:

6.1 Personal Precautions: No action should be taken involving any personal risk or without suitable training. Avoid breathing dust or fragments from mechanical processing. Use proper personal protective equipment as indicated in Section 8. Keep adequate ventilation.

6.2 Environmental Precautions: Avoid discard this product to environment without proper handling.

6.3 Methods for Containment: Stop leak if safe to do so. Move containers from spilled area.

6.4 Methods for Clean-Up: Ensure adequate ventilation. Carefully collect remainder, then remove to suitable and closed container for disposal or recycle according to local regulations. If large spills occur, covered with plastic film or tarpaulins. Contaminated floor can be flushed with water to chemical sewer. The materials which are used as cleansing are disposed according to local regulations. Review Section 5 and Section 7 sections before proceeding with clean-up.

6.5 Other Information: N/ A

6.6 Spill or leak statements by type of chemical: Use appropriate personal protective equipment {PPE}.

Section 7 HANDLING AND STORAGE:

General Information: This product should be stored, handled and used in accordance with good industrial hygiene practices and in conformity with any legal regulation. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash hands thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

7.1 Handling: Ensure good local exhaust ventilation. Handle and open container with care. Keep container closed and away from incompatible substances (see section 10), food, drink and feedstuffs. Avoid contact with eyes. Avoid ingestion and inhalation. The work area should be equipped with the corresponding species and quantity of emergency equipment, spills emergency treatment equipment and appropriate storage material.

7.2 Storage: Keep container closed when not in use. Opened packing should be resealed and kept upright to prevent spills. Store in a cool, dry, well-ventilated area away from incompatible substances {see section 10), food, drink and feedstuffs. Periodic checks should be taken to prevent physical damage to containers, The storage area should be equipped with the corresponding species and quantity of emergency equipment, spills emergency treatment equipment and appropriate storage material.

Section 8 EXPOSURE CONTROLS, PERSONAL PROTECTION:

8.1 Exposure Limit:

CAS#	ACGIH	NIOSH	OSHA (mg/m ³)
55818-57-0	N/A	N/A	N/A
68083-84-1	N/A	N/A	N/A
42978-66-5	N/A	N/A	N/A
14807-96-6	TLV-TWA 2 (mg/m ³) (Respirable fraction)	REL-TWA 2 (mg/m ³) (resp) IDLH-1000	PEL-TWA 20mppcf
947-19-3	N/A	N/A	N/A

8.2 Engineering Controls: Ensure adequate ventilation. Equipped with safety shower and eyes bath. Keep away from heat and fire.

8.3 Personal Protective Equipment:

Respiratory Protection: No special requirement under normal use. An appropriate respirator or mask should be used whenever workplace conditions warrant a respirator's use. A full face positive pressure supplied-air respirator or a self contained breathing apparatus should be used when leaks.

Hand Protection: No special requirement under normal use. It is recommended to wear appropriate protective gloves when there is the risk of greater exposure.

Eyes Protection: No special requirement under normal use. Use appropriate safety glasses when there is the risk of contact.

Skin and Body Protection: No special requirement under normal use. It is recommended to wear appropriate protective clothing when there is the risk of greater exposure.

8.4 General hygiene considerations: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Section 9 PHYSICAL AND CHEMICAL PROPERTIES:

Appearance: Brown lath.

Odor: Light odor.

Odor threshold: N/ A

Physical state: N/ A

pH: N/A

Melting Point: N/ A

Initial Boiling Point and Boiling range: N/ A

Flash Point: N/ A
Relative Density: N/ A
Evaporation rate: N/ A
Upper/lower flammability or explosive limits: N/ A
Vapor Pressure: N/ A
Vapor Density {Air=1}: N/ A
Relative density: N/ A
Solubility: N/ A
Auto-ignition Temperature: N/ A
Decomposition temperature: N/ A
Flammability {solid, gas}: N/ A

Section 10 STABILITY AND REACTIVITY:

- 10.1 Reactivity:** The component materials of the product may react with strong oxidizer, bases, etc ..
- 10.2 Possibility of hazardous reactions:** The components of the product may decompose on heating producing toxic or irritating gases/fumes.
- 10.3 Chemical Stability:** Stable under normal storage and handling conditions.
- 10.4 Conditions to Avoid:** Incompatible materials, any sources of ignition or heat (e.g. open flames, smoking, hot surfaces, excess heat), dust generation.
- 10.5 Incompatibilities Materials:** Strong oxidizer, bases, etc ..
- 10.6 Hazardous Decomposition Products:** The components of the product may decompose on heating producing oxides of carbon, hydrocarbons,etc ..

Section 11 TOXICOLOGICAL INFORMATION:

- 11.1 Toxicological information:** N/A
Medical condition aggravated by exposure: No data available.
- 11.2 Toxicity Data:**

CAS#	RTECS#	LC50/LD50
55818-57-0	N/A	No data available
68083-84-1	N/A	No data available
42978-66-5	N/A	LD50: 6200 mg/kg (Oral, rat)
14807-96-6	WW2710000	No data available
947-19-3	N/A	No data available

- 11.3 Repeated dose effects:** No data available.
- 11.4 Skin Irritation:** No data available.
Eye Irritation Composition: CAS# 42978-66-5
Draize test, rabbit, eye: 100 mg/24 h Moderate
- 11.5 Respiratory or Skin sensitization:** No data available.
- 11.6 Carcinogenicity:**
Composition: CAS# 14807-96-6
ACGIH: A4-Not classifiable as a human carcinogen. Not listed as a carcinogen by IARC, NTP, or CA Prop 65
Other compositions in this product are not listed as carcinogens by ACGIH, IARC, NTP, or CA Prop 65.

- 11.7 Neurological effects:** No data available.
11.8 Reproductive Cell Mutagenicity: No data available.
 Reproductive Toxicity: No data available.
11.9 Skin corrosion: No data available.
 Eye corrosion: No data available.
11.10 Developmental effects: No data available.
11.11 Specific target organ toxicity:
 Single exposure: No data available.
 Repeated exposure: No data available.
11.12 Aspiration hazard: No data available.

Section 12 ECOLOGICAL INFORMATION

- 12.1 Ecotoxicity:** No data available.
12.2 Persistence/Degradability: No data available.
12.3 Bioaccumulation/ Accumulation: No data available.
12.4 Mobility in environmental media: No data available.
12.5 Other adverse effects: Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Do not allow this product to be released to the environment without proper treatment.

Section 13 DISPOSAL CONSIDERATIONS

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Disposal should be in accordance with applicable regional, national and local laws and regulations. The generation of waste should be avoided or minimized wherever possible. Contaminated packaging material should be treated equivalent to residual chemical. Clean packaging material should be subjected to waste management schemes (recovery recycling, reuse) according to local legislation. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Refer to Section 7-Handling and Storage and Section 8-Exposure Controls/ Personal Protection for additional handling information and protection of employees.

Section 14 TRANSPORT INFORMATION

Not regulated as a hazardous material for transportation. (Current version: IMDG CODE 36-12 edition)
UN: N/A
UN Classification: N/ A
UN proper Shipping Name: N/ A
Packaging Sign: N/ A
Packaging group: N/ A
Marine Pollutant (Y/N): No
Transport in bulk according to MARPOL73/78 Annex II and the IBC Code: N/A
Transport Fashion: By sea.
Packaging information: N/ A
Shipping Notice: Packaging is intact and transport is secure. Avoid the physical damage of the packaging.
 Away from high temperature and open fire.

Section 15 REGULATORY INFORMATION

Regulatory Information: Reference to the local, national, US, EU, CA and international regulations.

CAS No.	TSCA	IECSC	EINECS/ ELINCS/NLP	DSL/NDSL
55818-57-0	Unlisted	Listed	Listed	Listed in DSL
68083-84-1	Unlisted	Listed	Unlisted	Listed in DSL
42978-66-5	Listed	Listed	Listed	Listed in DSL
14807-96-6	Listed	Listed	Listed	Listed in DSL
947-19-3	Listed	Listed	Listed	Listed in DSL

California Prop.65 Components: CAS# 14807-96-6 is listed as carcinogens by CA Prop 65. This product does not contain any chemicals known to cause birth defects, or any other reproductive harm.

Section 16 OTHER INFORMATION

Issue Time: 2015-6-27

Issue Department: Technical department

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Additional Information: ACGIH: (American Conference of Governmental Industrial Hygienists); CAS: (Chemical Abstracts Service); DSL: (the Domestic Substances List of Canada); EC: (European Commission); BCF: (Bioconcentration Factor); BOD: (Biochemical oxygen demand); EC50: (Median effective concentration); IARC: (International Agency for Research on Cancer); IATA: (International Air Transport Association); ENCS(MITI No.): (Existing and New Chemical Substances of Japan); IECSC (Inventory of Existing Chemical Substances in China); IMDG: (International Maritime Dangerous Goods); LC50: (Lethal concentration, 50 percent kill); LD50: (Lethal dose, 50 percent kill); NDSL: (the Non-domestic Substances List of Canada); NIOSH: (US National Institute for Occupational Safety and Health); NOEC: (No observed effect concentration); NTP: (US National Toxicology Program); OSHA: (US Occupational Safety and Health); PC-STEL: (Permissible concentration-time weighted average); PC-TWA: (Permissible concentration-short time exposure limit); PEL: (Permissible Exposure Level); REL: (Recommended Exposure Limit); RTECS: (Registry of Toxic Effects of Chemical Substances); STEL: (Short Term Exposure Limit); TDG: (Recommendations on the TRANSPORT OF DANGEROUS GOODS Model Regulations); TOC: (Total Organic Carbon); TSCA: (Toxic Substances Control Act of USA); TWA: (Time Weighted Average); TLV: (Threshold Limit Value)