



Material Safety Data Sheet

Material Safety Data Sheet according to EC directive 2001/58/EC and REACH regulation 1907/2006 Annex II

Date Issued: 12/12/2007 Date Revised 12/12/2007

Revision No.: 1

1. INFORMATION OF THE SUBSTANCE / COMPANY

1.1 IDENTIFICATION OF THE SUBSTANCE / PREPARATION

Product name: SL-1801

Product description: para-tert-octylphenol formaldehyde resin

CAS No.: 26678-93-3

1.2 USE OF THE SUBSTANCE

Use of the substance: rubber industry

1.3 COMPANY IDENTIFICATION

Manufacturer: Sino Legend (Zhangjiagang) Chemical Co.,Ltd

Address: 99#, Tianba Road Yangtze International Chemical Industrial

Park, Zhangjiagang City, Jiangsu Province, China, 215635

Tel: +86-512-58326999
Fax: +86-512-58326111
Web: www.sinolegend.com

1.4 EMERGENCY PHONE NUMBER

Emergency tel: +86-512-58326999

2. COMPOSITION / INFORMATION ON INGREDIENTS

Composition

Name	CAS No.	EC index No.	EC/EINECS	R-phrase	Content
			ELINCS No.		
formaldehyde	50-00-0	605-001-00-5	200-001-8	R23/24/25 R34,R40,R43	≤0.1%
p-t-octylphenol	140-66-9		205-426-2	R36/38、R21 R50/53	≤ 4. 0%
polymer of p-t-octylphenol and formaldehyde	26678-93-3				≥96.0%





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3. HAZARDS IDENTIFICATION

DANGERS FOR HUMAN HEALTH AND THE ENVIRONMENT

R-phrase Improper disposal may be harmful to human health and aquatic organisms,

may cause long-term adverse effects on the environment.

4. FIRST AID MEASURES

IN GENERAL check the vital functions

unconscious: maintain adequate airway and respiration

EYES immediately flush eyes directly with a stream of water while; washing eyes within

several seconds of exposure is essential to achieve maximum effectiveness.

If irritation accurs, seek medical treatment immediately.

SKIN for skin contact, wash immediately with soap and water. Wash contaminated clothing

before reuse.

If irritation accurs, seek medical treatment immediately.

INGESTION rinse mouth immediately with water.

if ingestion, drink lots of water.

if large amounts of ingestion, induce vomiting immediately, then go to hospital quickly.

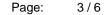
call the local Poison Treatment Center.

INHALATION remove the victim to a place with good air ventilation.

if respiratory problem occurs, go for medical treatment promptly.

5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD not determined.
FLAMMABLE LIMITS not determined.
AUTOIGNITION TEMPERATURE not determined.
FLAMMABLE CLASS non-flammable.





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6. ACCIDENTAL RELEASE MEASURES

GENERAL PROCEDURES keep unnecessary personnel away.

eliminate all sources of ignition.

do not allow the spilled product to enter sewers or open waterways.

PERSONAL PRECAUTIONS gloves

protective clothing

ENVIRONMENTAL PRECAUTIONS prevent dust cloud formation by wetting.

wash contaminated clothes.

7. HANDLING AND STORAGE

HANDING guard against dust accumulation of this material.

do not cut,drill,grind,or weld empty containers.

carry operations in the open ventilation or with respiratory protection.

avoid raising dust.

keep away from naked flames/heat/ignition sources/sparks.

STORAGE store in a dry area.

keep the materials in a well-ventilated place.

store in a cool area.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

TLV

TLV-TWA (ppm) 10ppm total dust TLV-TWA (mg/m 3) 5mg/m 3 dust

^{*:} Threshold Limit Value, Time Weighted Average limits for 8hr per day or 40 hr weekly. the maximum airborne concentration of a material to which most workers can be exposed during a normal daily and weekly work schedule without adverse effects.





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PERSONAL PROTECTION

EYE PROTECTION safety glasses

SKIN PROTECTION gloves, protective clothing

RESPIRATORY PROTECTION when heating: gas mask with filter type A

on dust generation: dust mask with filter type P2

HAND PROTECTION gloves

9. PHYSICAL AND CHEMICAL PROPERTIES

GENERAL INFORMATION

PHYSICAL STATE solid

ODOR not determined

APPEARANCE white to yellowish pastilles

VAPOR PRESSURE not determined
VAPOR DENSITY not determined
BOILING POINT not determined
SOFTENING POINT 85-105℃

SOFTEINING FOINT 65-105 C

FLASH POINT not determined

SOLUBILITY soluble in acetone/THF/organic solvents

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY stable in normal condition.

CONDITIONS TO AVOID keep away from heat, sparks or open flame.

POLYMERIZATION does not undergo hazardous polymerization.

INCOMPATIBILITY do not mix with strong acids.

HAZARDOUS DECOMPOSITION complete combustion yields carbon dioxide and water.

trace amounts of formaldehyde may be released in the resin curing process for formaldehyde, symptoms of exposure including eye,nose,throat, and respiratory irritation usually are experienced at air concentrations in the

range of 0.2-1.0ppm and become more severe above 1ppm.





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11. TOXICOLOGICAL INFORMATION

GENERAL PRODUCT INFORMATION formaldehyde, polymer with 4-(1,1,3,3-tetramethylbutyl)phenol is use

in the synthesis of this resin. The following acute toxicology data are based on tests done for one product from a family of products. This substance is practically non-toxic by the oral, dermal, and inhalation routes. It is slightly irritating to the eyes. It does not irritate skin.

COMPONENT ANALYSIS: LD50 phenol,4-(1,1,3,3-tetramethylbutyl)-(140-66-9)

oral LD50 rat: 4600mg/kg oral LD50 mouse: 3210mg/kg dermal LD50 rabbit:1880mg/kg

OTHER TOXICOLOGICAL INFORMATION this resin may generate "nuisance" dust. A study in mice indicated

that dust overloading compromised pulmonary immune function.

the exposure limits for nuisance dust are:

PEL: 15mg/m³(total)8hrs TWA PEL: 5mg/m³(resp)8hrs TWA TLV: 10mg/m³(total)8hrs TWA

12. ECOLOGICAL INFORMATION

ECOLOGY: WATER no bioaccumulation data available.

ECOLOGY: SOIL no data available.

ENVIRONMENTAL FATE there is no significant environmental fate and effects data available.

13. DISPOSAL CONSIDERATIONS

ECOLOGY: WASTE remove to an authorized industrial waste incinerator.

materials should be disposed of in accordance with local and

national regulations.





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14. TRANSPORTATION INFORMATION

NOT REGULATED

15. REGULATORY INFORMATION

NAME OF THE COMPONENTS DETERMING THE DANGER

formaldehyde

para-tert-octylphenol

R-PHRASES R51/53: toxic to aquatic organisms, may cause long term adverse effects in the

aquatic environment.

S-PHRASES S26: in case of contact with eyes, rinse immediately with plenty of water and seek

medical advice.

S57: use appropriate container to avoid environmental contamination. S61: avoid release to the environment. Refer to special instructions.

EC LIST contains para-tert-octylphenol.

16. OTHER INFORMATION

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its application.

completed on: 12/12/2007