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Safety data sheet in accordance with 91/155/EEC

Trade name: Lignal AC Clear Lacquer

Product no. SE 60154

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Position : 19:08.2002

Date of printing: 30.07.2003

1. Identification of the substance/preparation and company

Product details

Lignal AC Clear Lacquer SE 60154

Supplier details :

Lignal A/S

Hvidelvej 18-20

DK-7400 Herning

Telephone no. : +45 97 22 58 00 Telefax : +45 97 22 58 33

2. Composition/information on ingredients

Hazardous ingredients

- Designation of substance

CAS number Content Hazard symbols R phrases

- butan-1-ol

71-36-3 1 - 5 % Xn R-10,22,37/38,41,67

- n-butyl acetate

123-86-4 30 - 60% - R-10,66,67

3. Hazards identification

Hazard indication

flammable

Special hints about risks for man and environment

Flammable.

Repeated exposure may cause skin dryness or cracking.

Vapours may cause drowsiness and dizziness.

4. First aid measures

General information

In all cases of doubt, or when symptoms persist, seek medical attention.

Never give anything by mouth to an unconscious person.

after inhalation

Ensure supply of fresh air.

Keep patient warm and at rest.

If breathing is irregular or stopped, administer artificial respiration.

If unconscious place in recovery position and seek medical advice.

NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS

after contact with skin

Remove contaminated clothes, underwear and shoes immediately.

Wash skin thoroughly with soap and water or use recognized skin cleanser.

Do NOT use solvents or naphtha.

after contact with eyes

Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart and seek medical advice.

after ingestion

If accidentally swallowed obtain immediate medical attention.

Do not induce vomiting.

5. Fire-fighting measures

Suitable extinguishing media

Foam

CO2

Powder

Do NOT use water if avoidable

Special hazards from the material itself or its combustion products

Fire will produce dense black smoke.

Inhalation of dangerous decomposition products may cause severe health hazards.

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Special fire fighting procedures

Avoid breathing fire vapours. Containers close to fire should be removed immediately or cooled with water. Suitable breathing apparatus may be necessary. Avoid water in straight hose stream, will scatter and spread fire.

6. Accidental release measures**Personal precautions**

Keep away sources of ignition!
Ensure adequate ventilation.
Avoid inhalation of vapour!
Refer to protective instructions (see sections 7 and 8).

Environmental precautions

Do not allow to enter drains, soil, water ways or waste canal.
According to local regulations contamination of rivers, lakes or sewages must be reported to the appropriate authorities.

Methods for cleaning up/taking up

Wear necessary protective equipment. Soak up spillage with non-combustible absorbent material (e.g. sand, earth, kieselguhr, vermiculite) and collect in suitable containers for disposal according to the local regulations.
Provide ventilation and confine spill. Do not allow runoff to sewer.

7. Handling and storage**Handling****Advice on safe handling**

Prevent the formation of flammable or explosive concentrations of vapour in air and avoid vapour concentrations higher than the occupational exposure limits.
The material should only be used in areas from which all naked lights, fire and other sources of ignition have been excluded.
Material may charge electrostatically: always use earthing leads when transferring from one container to another.
Operators should wear antistatic clothing and footwear.

No sparking tools should be used.

Avoid skin and eye contact.
Avoid inhalation of vapour and spray mist.
Smoking, eating and drinking should be prohibited in application area.

For personal protection see section 8.
Comply with the health and safety at work laws.

Advice on protection against fire and explosion

The vapours of the product are heavier than air, risk of vapour concentration on the floor and in low-lying areas.
They may bridge a considerable distance to any source of ignition.
Vapours may form explosive mixtures with air.

Storage**Requirements for storage rooms and containers**

Electrical equipment must be explosion protected according to the appropriate standards.
Floors should be of conducting type.
Keep container tightly closed.

8. Exposure controls/personal protection**Additional advice on system design**

Provide adequate ventilation. This should be achieved by the use of local exhaust ventilation and good general extraction.
If these are not sufficient to maintain concentrations of solvent vapour below the OEL-value, suitable respiratory protection must be worn.

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Ingredients with occupational exposure limits to be monitored

- Designation of substance

CAS number	STD	LT Exp 8 Hrs	ST Exp 15 Min
- n-butyl acetate			
123-86-4	OES	150 ppm	200 ppm

Values according to the valid lists (e.g. TRGS 900 for Federal Republic of Germany).

Personal protective equipment

Respiratory protection: If the concentrations of solvents are above the exposure limits an appropriate certified respirator must be worn.

Hand protection: For prolonged or repeated skin contact use suitable protective gloves made of Nitrile. Pay attention to the recommendations of the manufacturers!

Eye protection: Use safety eyewear designed to protect against splash of solvents!

Body protection: Personnel should wear antistatic clothing made of natural fibre (cotton) or of high temperature resistant synthetic fibre. All parts of the body should be washed after contact.

Other protection: Use antistatic protective clothing

Hygienic work practices: DO NOT SMOKE IN WORK AREA! No eating or drinking while working with this material.

9. Physical and chemical properties**Appearance**

Form	Fluid
Colour	Clear
Odour	solvent
flash point	28°C
density/specific gravity (g/ml)	1,0
Method	Sh CC (Setaflash closed cup)
VOC Content:	42%

10. Stability and reactivity**Stability**

No decomposition if used as prescribed. When exposed to high temperatures hazardous decomposition products may be formed such as carbon monoxide and dioxide, nitrogen oxides and smoke.

Conditions to avoid

Reacts strongly with strong acids, bases, organic chemicals and certain metal combinations. Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions

11. Toxicological information**Remarks**

There are no data available on the preparation itself.

Inhalation of solvents above the OEL-value may cause damages to health such as irritation of mucous membranes and respiratory tract and adverse effects on kidney, liver and central nervous system.

Signs and symptoms: headache, vertigo, tiredness, muscular weakness, daze and, in exceptional cases, unconsciousness.

Prolonged or repeated contact with the product may cause removal of natural fat from the skin resulting in drying-out may cause skin irritation/eczema.

The liquid splashed in the eyes may cause irritation and reversible damage.

further toxicological comments

According to our knowledge and information on hand the product does not cause any health hazard, if handled properly and used as intended.

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12. Ecological information

Remarks

There are no data available on the preparation itself.
Do not empty into drains.

13. Advice on disposal

Product

Do not dispose together with household waste.
Codes of waste according to the European Waste Catalogue (EWC):
08 01 11 Dangerous waste

Uncleaned packaging

Containers must be completely emptied (spatula clean) before they
can be reused. Disposal according to regulations!

14. Transport information

ADR/RID (Land transport)

UN 1263 Class 3 Packaging group: III

Proper shipping name

PAINT

IMDG-Code (Marine transport)

UN 1263 Class 3 Packaging group: III

Ems 3-05

Proper shipping name

PAINT

ICAO/IATA-DGR (Air transport)

UN 1263 Class 3 Packaging group: III

Proper shipping name

PAINT

15. Regulatory information

Labelling in accordance with GefStoffV/EC-directives

The product is classified and labelled in accordance with
EC directives/German regulations on dangerous substances.

Hazard symbols F Highly flammable

R phrases

R-10 Flammable.
R-66 Repeated exposure may cause skin dryness or cracking.
R-67 Vapours may cause drowsiness and dizziness.

S phrases

S-37 Wear suitable gloves.
S-42 During fumigation/spraying wear suitable respiratory
equipment.
S-51 Use only well-ventilated areas.
S-60 This material and its containers must be disposed of as
hazardous waste.

MAL Code: 3-1

MAL No. : 917

16. Other information

This information is based on the present state of our knowledge.
They are meant as a description of the safety requirements of our
product and are not to be considered as a guarantee of the product's
properties.