

1. Identification of the substance/preparation

| | |
|--|---|
| Name of product | Lithofin BERO |
| Manufacturer/distributor | CASDRON Enterprises Ltd. Wood End, Prospect Road, Alresford Hampshire SO24 9QF Phone 0 19 62 73 21 26, Fax 0 19 62 73 53 73 |
| Advice | Technical Department Phone 0 19 62 73 21 26 |
| Recommended intended purpose(s) | |
| Cleaner | |

2. Composition/information on ingredients**Chemical characterization**

Solvent based cleaner

Hazardous ingredients

| CAS-No. | EC-No. | Name | [% weight] | Classification |
|----------------|---------------|---------------------|-------------------|--------------------------------|
| - | | anionic surfactants | < 5 | Xi R 38-41 |
| 000067-56-1 | 200-659-6 | methanol | > 3 | F R11; T R23/24/25-39/23/24/25 |
| 000075-09-2 | 200-838-9 | dichloromethane | > 1 | Carc.Cat.3 R40 |
| 000123-86-4 | 204-658-1 | n-butyl acetate | < 15 | R10; R66; R67 |
| 001336-21-6 | 215-647-6 | Ammoniak...% | < 5 | C R34; N R50 |

3. Special hazards information for man and environment**R-phrases**

| | |
|-------------|---|
| 40 | Limited evidence of a carcinogenic effect. |
| 68/20/21/22 | Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed. |

4. First aid measures**General information**

Remove contaminated soaked clothing immediately.

In case of inhalation

Ensure of fresh air.

In the event of symptoms refer for medical treatment.

In case of skin contact

In case of contact with skin wash off immediately with soap and water.

Consult a doctor if skin irritation persists.

In case of eye contact

In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

In case of ingestion

Do not induce vomiting.

If swallowed by mistake drink plenty of water and seek medical treatment.

5. Fire-fighting measures**Suitable extinguishing material**

Product does not burn, fire-extinguishing activities according to surrounding.

Extinguishing material that may not be used for safety reasons

Full water jet

Special exposure hazards arising from the substance, combustible products or resulting gases

In case of fire formation of dangerous gases possible.

Hydrogen chloride (HCl)

Additional information

Collect contaminated firefighting water separately, must not be discharged into the drains.

6. Accidental release measures**Personal precautions**

Ensure adequate ventilation.
Use personal protective clothing.

Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

Methods for cleaning up/taking up

Take up with absorbent material (e.g. sand, sawdust, general-purpose binder).

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

Use only in thoroughly ventilated areas.
Use solvent-resistant equipment.
Take the usual precautions when handling with chemicals.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking
Take precautionary measures against static discharges.

Further information on storage conditions

Keep container dry, tightly closed and store at cool and aired place.

8. Exposure controls / personal protection**Ingredients with occupational exposure limits to be monitored**

| CAS-No. | Name | Code | [mg/m ³] | [ml/m ³] | Remark |
|-------------|-----------------|---------|----------------------|----------------------|--------|
| 000067-56-1 | methanol | DFG, EU | 270 | 200 | H, Y |
| 000075-09-2 | dichloromethane | MAK | 350 | 100 | |
| 000123-86-4 | n-butyl acetate | MAK | 480 | 100 | 37 |

Respiratory protection

Breathing apparatus in the event of high concentrations.
Short term: filter apparatus, filter AX

Hand protection

chemical-resistant gloves
PVA gloves
Neoprene gloves

Eye protection

safety goggles

General protective measures

Avoid contact with eyes and skin

Hygiene measures

At work do not eat, drink and smoke.

9. Physical and chemical properties**Form**

viscous

Colour

whitish

Odour

characteristic

Data relevant for safety

| | Value | Temperature | at | Method | Remark |
|-----------------------------------|----------------|-------------|----|--------|--------|
| pH value in delivery state | not applicable | | | | |
| starts to boil | < 65 °C | | | | |
| Flash point | > 23 °C | | | | |
| Lower explosion limit | ca. 0,6 Vol-% | | | | |

| | Value | Temperature | at | Method | Remark |
|---------------------------------|---------------------------|-------------|----|---------------|--------------|
| Upper explosion limit | ca. 22 Vol-% | | | | |
| Density | ca. 1,2 g/cm ³ | | | | |
| Solubility in water | | | | | emulsifiable |
| Viscosity 1 Outflow time | < 30 s | | | ISO 2431/3 mm | |

10. Stability and reactivity

Conditions to avoid

No hazardous reactions known.

11. Toxicological information

Acute toxicity/Irritability/Sensitization

| | Value/Validation | Species | Method | Remark |
|-------------------------------|------------------|---------|--------|--------|
| LD 50 acute oral | not determined | | | |
| LD 50 acute dermal | not determined | | | |
| LC 50 acute inhalation | not determined | | | |

Additional information

The product is a substance of Carc. Cat. 3

12. Ecological information

Data on elimination (persistence and degradability)

| | Elimination rate | Method of analysis | Method | Validation |
|---------------------------------------|------------------|--------------------|--------|------------|
| Physico-chemical degradability | not determined | | | |
| Biological degradability | not determined | | | |

13. Disposal considerations

Waste code No.

07 06 03*

Name of waste

organic halogenated solvents, washing liquids and mother liquors

Recommendations for the product

In accordance with regulations for special waste, must be taken to a special waste disposal.

Recommendations for packaging

Totally emptied packaging may be taken for recycling.

14. Transport information

Land and inland navigation transport (ADR/RID/GGVS/GGVE/ADNR)

| | |
|-----------------------|-----------------|
| Identification | Dichloromethane |
| UN-No. | 1593 |
| Class | 6.1 |
| PG | III |
| Hazard No. | 60 |

Marine transport IMDG/GGV See

| | |
|-----------------------------|-----------------|
| Proper shipping name | Dichloromethane |
| UN-No. | 1593 |
| Class | 6.1 |
| PG | III |
| Marine pollutant | No |
| EmS-No. | 6.1-02 |

Air transport ICAO/IATA

| | |
|-----------------------------|-----------------|
| Proper shipping name | Dichloromethane |
| UN/ID-No. | 1593 |
| Class | 6.1 |
| PG | III |

15. Regulatory information**Remarks for classification**

The product is classified and labelled in accordance with EC directives.

Classification

Xn Harmful

R-phrases

40 Limited evidence of a carcinogenic effect.
68/20/21/22 Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed.

S-phrases

2 Keep out of the reach of children.
23.3 Do not breathe vapour.
24/25 Avoid contact with skin and eyes.
36/37 Wear suitable protective clothing and gloves.
46 If swallowed, seek medical advice immediately and show this container or label.

Hazardous ingredients for labeling

dichloromethane, methanol

National regulations

Classification according to VbF/ remarks VbF: is not subject to decree for combustible liquids.

Water hazard class 2 VwVwS (17. 05. 1999)

Other regulations, restrictions and prohibition regulations

ZH 1/194 "Data Sheet for chlorinated hydrocarbons"

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16. Other information**Further information**

The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

Wording of the R-phrases specified in chapter 2 (not the classification of the formulation!)

R 10 Flammable.
R 11 Highly flammable.
R 23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
R 34 Causes burns.
R 38 Irritating to skin.
R 39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.
R 40 Limited evidence of a carcinogenic effect.
R 41 Risk of serious damage to eyes.
R 50 Very toxic to aquatic organisms.
R 66 Repeated exposure may cause skin dryness or cracking.

Safety data-sheet (91/155 EEC)

Printed

19.10.2002

Revision

28.09.2002 (GB) Version 1.2

Lithofin BERO

R 67 Vapours may cause drowsiness and dizziness.