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Edition: October 2016

Cobalt Driers

(TNL 1484)

1. Identification of the substance/preparation and of the company/undertaking

Product name: Cobalt Driers
Product code: 1484
Chemical Name: Cobalt bis(2-ethylhexanoate) solution in solvent.
CAS No.: 136-52-7
EC No.: 205-250-6

Relevant identified uses of the substance or mixture and uses advised against
Drying additive for oil-based inks For professional use only.

Company name: Lawrence Art Supplies
36 Kingsthorpe Road
Hove
BN3 5HR
Tel: 01273 260260
Fax: 01273 260270
Email: artbox@lawrence.co.uk
Emergency Number: Mon - Thurs 9am-5pm, Fri 9am - 4pm (not a poison centre) 01273 260260

2. Hazards identification

2.1 Classification of the substance or mixture

- Asp. Tox. 1
- Skin Sens. 1
- Aquatic Chronic 1
- Acute Tox. 1

2.2 Label elements



- Signal Word: Danger
- Hazard phrases
 - May be fatal if swallowed and enters airways.
 - May cause an allergic skin reaction.
 - Very toxic to aquatic life.
 - Very toxic to aquatic life with long lasting effects.
- Precautionary Phrases
 - Avoid breathing dust/fume/gas/mist/vapours/spray.
 - Wear protective gloves/protective clothing/eye protection/face protection.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Avoid release to the environment.

- Risk Phrases

May cause sensitisation by skin contact

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Harmful: may cause lung damage if swallowed

- Safety Phrases

Avoid contact with skin

Wear suitable protective clothing and gloves

Avoid release to the environment. Refer to special instructions/Safety data sheets

2.3 Other hazards

3. Composition/information on ingredients

3.1 Mixtures

- Cobalt bis(2-ethylhexanoate)

Concentration: 50-<75

CAS Number: 136-52-7

EC Number: 205-250-6

R/H Phrases: H317, H400, H410,

Symbols: See section 2

Xn

- Naphtha (petroleum), hydrodesulfurized heavy;

Low boiling point hydrogen treated naphtha.

(<0.1% benzene)

Concentration: 25-<50%

CAS Number: 64742-82-1

EC Number: 265-185-4

R/H Phrases: H350, H340, H304

Symbols: GHS08

- 2-(2-butoxyethoxy)ethanol;

diethylene glycol monobutyl ether

Concentration: 2.5-<10%

CAS Number: 112-34-5

EC Number: 203-961-6

R/H Phrases: H319

Symbols: GHS07

4. First aid measures

4.1 Description of first aid measures

- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

- IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.

- After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water (S27/28)

- If substance has got into eyes, immediately wash out with plenty of water for at least 15 minutes and get medical attention

- If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label

4.2 Most important symptoms and effects, both acute and delayed

- Aspiration hazard
- May cause allergic skin reaction

4.3 Indication of any immediate medical attention and special treatment needed

5. Fire-fighting measures

5.1 Extinguishing media

- In case of fire use water spray or fog, alcohol resistant foam, dry chemical or carbon dioxide

5.2 Special hazards arising from the substance or mixture

5.3 Advice for firefighters

- Wear Breathing Apparatus
- Wear full protective clothing including chemical protection suit

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Ensure adequate ventilation.
- Evacuate the area and keep personnel upwind
- Wear protective clothing as per section 8
- Wear suitable respiratory protection

6.2 Environmental Precautions

- Do not allow to enter public sewers and watercourses
- If contamination of drainage systems or water courses is unavoidable, immediately inform appropriate authorities
- Absorb spillage in earth or sand
- Place in sealable container
- Seek expert advice for removal and disposal of all contaminated materials and wastes

6.4 Reference to other sections

- See Section 7 for information on safe handling.
- See Section 8 for information on personal protective equipment.

7. Handling and storage

7.1 Precautions for safe handling

- Avoid breathing dust/fume/gas/mist/vapours/spray.
- Ensure adequate ventilation
- Keep away from heat and sources of ignition
- The usual precautions for handling chemicals should be observed
- Avoid contact with skin and eyes

7.2 Conditions for safe storage, including any incompatibilities

- Keep container tightly closed and in a well ventilated place
- Keep only in the original container
- Shelf life 6 months
- Store between 5 - 30 °C

7.3 Specific end use(s)

- See Section 1

8. Exposure controls/personal protection

8. Exposure controls/personal protection

8.1 Control parameters

- WEL (long term) 67.5 mg/m³
- WEL (short term) 101.2 mg/m³
- Note these figures refer to 2-(2-butoxy)ethanol

8.2 Exposure controls

- Appropriate respiratory protection should be worn for short periods if no extraction available
- Chemical gloves, goggles and appropriate skin protection should be worn when handling
- Engineering controls should be provided which maintain airborne concentrations below the relevant guidelines

8.3 Occupational exposure controls

- In case of inadequate ventilation wear respiratory protection.
- Wear suitable protective clothing, eye/face protection and gloves

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Appearance: Liquid
- Boiling point 192 °C
- Vapour pressure 173.5 Pa at 20 deg C
- Relative Density 0.99 at 25°C
- Flash point 65 deg C
- Auto-ignition temperature 204 deg C
- Viscosity 124 centipoise at 25 deg C

9.2 Other information

10. Stability and reactivity

10.1 Reactivity

- Stable under normal temperature conditions and recommended use

10.2 Chemical stability

- Stable at normal temperature conditions and recommended use.

10.3 Possibility of hazardous reactions

- If incompatible materials avoided unlikely to be hazardous reactions
- Vapours may ignite

10.4 Conditions to avoid

- Avoid contact with oxidising substances

10.5 Incompatible materials

- Incompatible with oxidizing substances

10.6 Hazardous Decomposition Products

- Decomposition products may include carbon oxides

11. Toxicological information

11.1 Information on toxicological effects

- LD50 (oral) : 5660 mg/kg
- LD50 (dermal) : 2700 mg/kg
- Note these figures refer to 2-(2-butoxy)ethanol
- Inhalation May cause dizziness May cause drowsiness
- Contact with skin May cause allergic reaction in susceptible people
- Contact with eyes May cause irritation

- Ingestion Aspiration hazard
- Carcinogenicity No evidence of carcinogenic effects in man
- Teratogenicity No evidence of reproductive effects
- Mutagenicity No evidence of mutagenic effects

12. Ecological information

12.1 Toxicity

- LC50 (fish) 0.1-1 mg/l (96 hr)
- EC50 (Daphnia magna) 0.1-1 mg/l
- IC50 (algae) 0.1-1 mg/l
- Note these figures refer to Cobalt bis(2-ethylhexanoate)

12.2 Persistence and degradability

- Not available

12.3 Bioaccumulation Potential

- Not available

12.4 Mobility in soil

- Not available

12.5 Results of PBT and vPvB assessment

- Not applicable

12.6 Other Adverse Effects

13. Disposal considerations

13.1 Waste treatment methods

- This material and its container must be disposed of as hazardous waste
- Incineration by an approved method could be considered

14. Transport information

14.1 UN Number

- 3082
- 3082

14.2 UN Proper Shipping Name

- ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Cobalt bis(2-ethylhexanoate))

14.3 Transport hazard class(es)

- 9

14.4 Packing group

- III

14.5 Environmental hazards

- Marine pollutant
- ENVIRONMENTALLY HAZARDOUS

14.6 Special precautions for user

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code

14.8 Transport Regulations



14.9 Emergency Action Code

- Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Cobalt bis(2-ethyl hexanoate))
- EAC: °3Z °

14.10 Road/Rail (ADR/RID)

- Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Cobalt bis(2-ethyl hexanoate))
- ADR UN No.: 3082
- ADR Hazard Class: 9
- ADR Item No.:
- ADR/RID No.:
- Tremcard:
- Tunnel Code: E

14.11 Sea (IMDG)

- Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Cobalt bis(2-ethyl hexanoate))
- IMDG UN No.: 3082
- IMDG Hazard Class: 9
- IMDG Page No.:
- IMDG Pack Group.: III
- IMDG EmS:
- IMDG MFAG:

14.12 Air (ICAO/IATA)

- Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Cobalt bis(2-ethyl hexanoate))
- ICAO Un No.: 3082 3082
- ICAO Hazard Class: 9
- ICAO Packing Group: III

14.13 DOT / CFR (US Department of Transportation)

- DOT Proper Shipping Name:
- Hazardous Material:
- Hazard Class:
- Identification Number:
- Product RQ (lbs):

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

15.2 Chemical Safety Assessment

A CSA has not been carried out.

16. Other information

Text not given with phrase codes where they are used elsewhere in this safety data sheet:- H304: May be fatal if swallowed and enters airways. H317: May cause an allergic skin reaction. H319: Causes serious eye irritation. H340: May cause genetic defects. H350: May cause cancer. H400: Very toxic to aquatic life. H410: Very toxic to aquatic life with long lasting effects. R36: Irritating to eyes. R45: May cause cancer. R46: May cause heritable genetic damage. R65: Harmful: may cause lung damage if swallowed.

DISCLAIMER This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.