



HS15 CADRAM OUTLINE PART B May 2008

Cadram Outline Part B

1. IDENTIFICATION OF SUBSTANCE OR PREPARATION

Product: Cadram Outline Part B

Application: Acrylic resin solution

RegaLead Ltd

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2. COMPOSITION/INFORMATION - HAZARDOUS INGREDIENTS

Acrylic resin solution in butyl acetate.

Dangerous Components:

CAS: 123-86-4 n-butyl acetate R 10-66-67 45%

EINECS: 204-658-1

Concentrations are average values.

3. HAZARDS IDENTIFICATION

Flammable. (R10)

Harmful by inhalation and if swallowed (R20/22)

Irritating to eyes, respiratory system and skin

(R36/37/38)

4. FIRST AID MEASURES

If in any doubt at all or if symptoms persist, seek medical advice immediately.

Inhalation

Remove from exposure. Keep warm and at rest. If there is respiratory distress give oxygen. If respiration stops or shows signs of failing, apply artificial respiration. Do not use mouth to mouth ventilation. Obtain medical attention urgently.

Ingestion

Wash out mouth with water. Give copious drinks of milk or water. DO NOT induce vomiting. Note presence of Methanol. Seek immediate medical attention.

Skin Contact

Wash the affected area immediately with plenty of soap and water. If irritation persists, seek medical attention.

Eyes

Irrigate immediately with water, continuing for at least 15 minutes. Seek medical attention.

5. FIRE FIGHTING MEASURES

Extinguishing Media

Foam, Carbon Dioxide, Dry Powder, Sand.

Combustible Products

Water

Specific Hazards

Flammable liquid, stable under normal conditions.

Protective Measures

Fire-fighters should wear self contained breathing apparatus and full protective clothing.

6. ACCIDENTAL RELEASE MEASURES (SPILLAGE)

Personal Precautions

Avoid contact with the liquid and ventilate the area to dispel residual vapours.

Spill clean up methods

Small spillages can be wiped up with an absorbent cloth and placed into a suitable container for disposal. For larger spills, absorb with sand which can be swept up and placed in a suitable container for disposal.

Environmental Precautions

Do not allow liquid to enter sewers, the soil or surface waters. Cover drain openings to prevent entrance into water courses. However, if size of spillage warrants and has contaminated water courses, drains or vegetation – advise appropriate authorities.

7. STORAGE AND HANDLING (IN NORMAL USE)

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice (S26)
Use only in well ventilated areas (S51)
If swallowed, seek medical advice immediately and show this container or label (S46).

Do not eat, smoke or drink while using this product.

Storage Precautions

Keep in a cool place (S3)
Keep container tightly closed (S7)
Keep away from sources of ignition – No smoking (S16).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Protective Equipment



Eye Protection

Goggles against splashes.

Skin Protection

Rubber gloves (Neoprene, nitrilrubber).

Respiratory Protection

Normal to increased room ventilation is sufficient but it is recommended an adequate exhaust be installed or that chemical masks (Type A) be worn if the quantities being used are large. Try to use within a closed system.

Long term exposure limit for butyl acetate in the UK is 724/mg/m³.

9. PHYSICAL/CHEMICAL PROPERTIES

Appearance: colour dependant on requirement:

B – Black, tar like, viscous liquid

Grey - Grey, tar like, viscous liquid

White - White, tar like, viscous liquid

Solubility: Insoluble in water.

Odour: Characteristic odour.

pH: Non applicable.

Flash Point: 25°C

Ignition Temperature: 370°C

Vapour Pressure at 20°C: 10 hpa

Density at 20°C: 1.02g/cm³

Vapour Density: >3 (air=1)

Solids: 60%

10. STABILITY AND REACTIVITY

Stability

Stable under the recommended storage and handling conditions.

Conditions to Avoid

Prevent exposure to direct sunlight, heat or ignition sources and static build-up.

Materials to Avoid

As above. Contact with water may liberate very small quantities of methanol which can react with oxidising agents. Avoid contact with strong oxidisers. Do not under any circumstances mix product with any other product except as directed. Also avoid contact with certain plastics like PVC and natural rubber. These materials will dissolve.

Hazardous Decomposition Products

Product decomposes in heated air and may emit formaldehyde vapours.

11. TOXICOLOGICAL INFORMATION

Acute Effects

Significant respiratory exposure to the product may lead to coughing, headache, dizziness, sickness, vomiting and drowsiness.

Harmful if swallowed. Forms methanol. Experimental data indicates stoichiometric hydrolysis of these methanols on ingestion.

Chronic Effects

Significant long term exposure may lead to effects of the nervous system. Repeated skin contact can cause sensitisation and allergic dermatitis.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Slightly toxic to aquatic life.

Butyl acetate biodegradable in freshwater and seawater, leading to oxygen depletion. Bio-oxidation as % of theoretical oxygen demand (ThOD);

Freshwater: 56(5 day), 68(10 day), 93(20 day)
Seawater: 40(5 day), 56 (10day), 61 (20 day)
(ThOD = 2.20gm/gm & COD = 2.20gm/gm)

Air

This product is a liquid and although detectable by odour, it is unlikely to become a significant atmospheric contaminant.

Aquatic

A very small amount of this product hydrolyses in water, releasing methanol and an unspecified oligomeric or polymeric silicone species. However the products of the hydrolysis are not classified as "Dangerous to the environment".

No available evidence to suggest any possibility of bioaccumulation or tainting of seafood.

13. DISPOSAL CONSIDERATIONS

General Information

Treat as spillages. (See accidental release measures). Transfer any hazardous waste to suitable containers for subsequent disposal. Dispose of any hazardous waste in accordance with waste disposal or water authority regulations.

Disposal Methods

DO NOT dump indiscriminately. It is possible to destroy hazardous waste by burning in suitable controlled incinerators.

14. TRANSPORT INFORMATION (REGULATIONS)

Land Transport

RID/ADR - Class 3 flammable liquids.
UN Number – 1866
Packaging Group – III
Hazard Label – 3
Description – Resin Solution Mixture

Maritime Transport IMDG

IMDG Class - 3
UN Number – 1866
Packaging Group – III
Hazard Label – 3
EMS number – F-E, S-E
Marine Pollutant – No
Proper shipping name – Resin Solution Mixture

Air Transport ICAO-TI and IATA-DGR

ICAO/IATA Class - 3
UN Number – 1866
Packaging Group – III
Hazard Label – 3
Proper shipping name – Resin Solution Mixture

15. REGULATORY INFORMATION (SUPPLY & LABELLING)

LABELLING



Irritant

Hazard Symbol

R10/-) Flammable

Risk Phrases

R10 Flammable
R20/22 Harmful by inhalation and if swallowed
R36/37/38 Irritating to eyes, respiratory system and skin.

Safety Phrases

S3 Keep in cool place.
S7 Keep container tightly closed.
S16 Keep away from sources of ignition – No smoking.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S51 Use only in well ventilated areas.
S46 If swallowed seek medical advice immediately and show this container or label.
S24/25 Avoid contact with skin and eyes.

16. OTHER INFORMATION

Training Advice

The user should be trained to handle chemicals and be fully aware of the products reaction/hazards. Read the label before opening the container.

Avoid storage with or near reactive chemicals or incompatible material. See stability and reactivity.

Recommended Uses and Restrictions

Use only as directed. DO NOT mix with other products (except as directed) as a potentially lethal reaction could take place.

This product is designed to be used SOLELY with CADRAM Outline Part B. There is no evidence to suggest that there are any other inherent hazards once these two products are mixed and so no data sheet is therefore required. Once mixed these products become completely inert after 72 hours under normal conditions.

Information Sources

HSE website www.hse.gov.uk

ISSUED BY

RegaLead Ltd

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DISCLAIMER

All information, recommendations and suggestions concerning the product and its use are believed to be reliable. The information is to the best of our knowledge correct and complete and is given in good faith but without warranty. It remains the user's own responsibility to make sure that the information is appropriate and in accordance with local legislation and for obtaining the necessary certificates and authorisations.