

JOBLING PURSER LIMITED - SAFETY DATA SHEET (SDS)

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product Identification Number: ROCBINDA CATALYST

Use: Catalyst for resin blend binders, sealants and coatings.

Company Identification:

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2. HAZARDS IDENTIFICATION

Preparation classified according to 1999/45/EC:

Toxic. Harmful if swallowed. Irritating to skin. Toxic: danger of serious damage to health by prolonged exposure if swallowed. May impair fertility. May cause harm to the unborn child. Possible risk of irreversible effects. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	EINECS No.	REACH No.	%	Classification
Dibutyltin Dilaurate (DBTL)	201-039-8	-	100	T; R22, R38, R48/25, R60, R61, R68 N; R50/53

See Section 15 for the full text of the R Phrases declared above, if applicable. Where substances listed are "Not classified" the reason for listing is...

PBT (Persistent, Bioaccumulative and Toxic) Substance:	No
vPvB (Very Persistent Very Bioaccumulative) Substance:	No
Substance with a Community workplace exposure limit:	No

4. FIRST-AID MEASURES

General Information:

DO NOT DELAY. Keep victim calm. Obtain medical treatment immediately.

Inhalation:

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Obtain medical treatment immediately if symptoms persist.

Skin Contact:

Wash off immediately with soap and plenty of water removing all contaminated clothing and footwear. Obtain medical treatment if symptoms persist.

Eye Contact:

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician and obtain medical attention if symptoms persist.

Ingestion:

If swallowed, wash out mouth with water provided person is conscious. Do not induce vomiting without medical advice and obtain medical attention immediately.

5. FIRE-FIGHTING MEASURES

NOTE: The product is non-flammable however will support combustion and the following guidance is relative to large scale fires involving the material.

Suitable Extinguishing Media:

Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

Specific Exposure Hazards:

Hazardous combustion products may include: A complex mixture of airborne solid and liquid particulates and gases (smoke). Carbon monoxide and sulphur oxides. Unidentified organic and inorganic compounds.

Protection of Fire-fighters:

Appropriate protective equipment including breathing apparatus must be worn when approaching a large fire or a fire in a confined space. Risk of explosion due to increased pressure if product containers or tanks become heated due to fire. Cool closed containers exposed to fire with water.

6. ACCIDENTAL RELEASE MEASURES

Avoid contact with spilled or released material. For guidance on selection of personal protective equipment and disposal see Sections 8 and 13 of this Safety Data Sheet.

Personal Precautions:

Avoid contact with skin, eyes and clothing, by wearing the appropriate personal protective equipment and self-contained breathing apparatus. Prevent from spreading or entering into drains, ditches or rivers by using sand, earth, or other appropriate barriers.

Environmental Precautions:

Prevent from spreading or entering into drains, ditches or rivers by using sand, earth, or other appropriate barriers. Local authorities and/or Environmental regulators should be advised if significant spillages cannot be contained, or the product enters drains or watercourses.

Methods for Cleaning Up:

Small spillage: Absorb on sand or vermiculite and place in suitable clearly marked sealable containers for disposal or reclamation in accordance with local regulations. Ventilate area and wash spill site after material pickup is complete.

Large spillage: Prevent from spreading by making a barrier with sand, earth or other containment material. Treat residues and containment material as for small spillages.

7. HANDLING AND STORAGE

Handling Precautions:

User Exposure: Do not breathe vapour. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure and use the product at ambient temperatures.

Storage Precautions:

Store in properly labelled tightly sealed containers intended for this product. Store containers in a dry, well-ventilated place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limit Values:

Material	Source	TWA mg/m ³	STEL mg/m ³	Method
Dibutyltin Dilaurate (DBTL)	EH40 WEL	0.1	0.2	Expressed as Tin.

Exposure Controls:

General Information :

This material has low volatility at ambient temperature and fume/vapour formation will be low. Avoid vapours from materials to prevent exposure to potentially toxic fumes. The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. Where material is heated, sprayed or mist formed, there is greater potential for airborne concentrations of material to be generated.

Appropriate Measures:

Appropriate measures include adequate local, mechanical and general ventilation to control airborne concentrations below the exposure guidelines/limits. Adequate equipment, materials, work processes and appropriate organisational measures to ensure the safe transport, storage, handling, use and disposal of the material. Suitable measures to deal emergency situations, including spill control and fire along with suitable first aid provision and access to eye wash facilities and emergency showers.

Personal Protection Equipment:

Where exposure cannot be prevented by other means the use individual protection measures, such as personal protection equipment should be used. Personal protection equipment (PPE) should meet recommended CEN standards. Check with PPE suppliers.

Respiratory Protection:

Wear an appropriate respirator when ventilation is inadequate.



Eye and Head Protection:

For normal operations wear an appropriate safety hat with tightly fitted goggles or safety glasses with side shields. In situations where misting or splashing may occur, the addition of a face shield may be necessary.



Hand and Body Protection:

Wear gloves with suitability and durability appropriate to usage, e.g. heat resistance, frequency and duration of contact. Always seek advice from glove suppliers. Wear coveralls, (with cuffs over gloves and legs over boots), and heavy-duty boots, e.g. leather for heat resistance. The use of a suitable neck apron is also recommended.



Environmental Exposure Controls:

Minimise release to the environment. An environmental assessment must be made to ensure compliance with local environmental legislation.

9.

PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Pale yellow viscous liquid.
Auto Flammability (°C):	No data available.
Boiling point (°C):	>200
Explosive Limits – lower/upper vol.%	No data applicable.
Flashpoint (°C):	232
Melting point/ range (°C):	-10 (Approx.)
Octanol/water Partition Coefficient:	Log (K _{ow}) >3
Odour:	No data applicable.
pH value:	No data applicable.
Relative Density:	1.03 – 1.06
Solubility in water:	Low solubility. <0.1 g/100 ml @ 20°C
Vapour Pressure:	0.2 mmHg @ 160°C
Viscosity:	35 – 55 mPa.s @ 23°C

10. STABILITY AND REACTIVITY

Stability:

This material is stable under normal conditions of use.

Conditions to Avoid:

Heating above the recommended ambient storage and handling temperatures.

Materials to Avoid:

Reacts with strong oxidising agents and strong bases.

Hazardous Decomposition Products:

Hazardous Polymerization: Will not occur. Burning can produce Carbon Monoxide, Carbon Dioxide, Tin/tin oxides.

11. TOXICOLOGICAL INFORMATION

Information given is based on data on the components and the toxicology of similar products.

Toxicokinetics, Metabolism and Distribution:

No data available.

Acute Oral and Dermal Toxicity :

Expected to be of high oral toxicity. LD50 Oral (Rat) 175 – 450 mg/kg. Remarks: Lungs, Thorax, or Respiration: Respiratory depression. Gastrointestinal: Changes in structure or function of salivary glands. Behavioural: Tremor. LD50 Dermal (Rabbit) 200 mg/kg. Skin Rabbit 500 mg 24 H. Remarks: Moderate to severe irritation effect.

Acute Inhalation Toxicity :

LC50 Inhalation (Mammal) 2.4 mg/l. LC50 Inhalation (Mouse) 0.08 mg/m³. Results inconclusive, but still considered to be an inhalation hazard.

Skin Irritation:

Expected to be irritating to the skin.

Eye Irritation:

Vapours may irritate eyes.

Respiratory Irritation:

Inhalation of vapours or mists may cause irritation to the respiratory system.

Corrosivity:

There is no indication that the material exhibits corrosivity effects.

Sensitization:

There is no indication that the material is a skin sensitizer.

CMR Effects:

Carcinogenicity:

There is no indication that the material is a carcinogen.

Mutagenicity:

There is no indication that the material is a mutagenic hazard.

Toxicity for Reproduction:

Species: Rat. Dose: 50532 Ug/Kg. Route of Application: Oral. Exposure Time: 8 Days (PREG)
Result: Specific Developmental Abnormalities: Musculoskeletal system, Craniofacial (including nose and tongue).

12. ECOLOGICAL INFORMATION

Ecotoxicological data has not been determined specifically for this product. Information given is based on knowledge of the component and the ecotoxicology of similar products.

Eco Toxicity:

Regarded as dangerous for the environment. Insoluble with a strong affinity to soil and sediments. Test Type: EC50 Daphnia. Species: Daphnia magna. Time: 24 h. Value: 0.66 mg/l. Test Type: LC50 Fish. Species: Leuciscus idus. Time: 48 h. Value: 2 mg/l.

Mobility:

Adsorbs to soil and has low mobility. In water will sink, showing little tendency to disperse, the product will adsorb to the sediment.

Persistence and degradability:

Expected to be inherently biodegradable. Micro-organisms can convert the product into methyltin-compounds in a half life of around 9 days.

Bioaccumulative Potential:

Has the potential to bioaccumulate in water and plants. Bioavailability to aquatic organisms is limited due to poor solubility and therefore bioaccumulation in organisms is unlikely.

Results of PBT Assessment:

No data available.

Other Adverse Effects:

Not expected to have ozone depletion potential, photochemical ozone creation potential or global warming potential.

13. DISPOSAL CONSIDERATIONS

Material Disposal:

Recover or recycle if possible. Dispose in accordance with prevailing regulations, to a recognised licensed collector or contractor. Disposal should be in accordance with applicable local, regional or national laws, regulations and provisions. The competence of the collector or contractor should be established beforehand. Do not dispose into the environment, in drains or in water courses.

Container Disposal:

Comply with any applicable local, regional or national laws, regulations and provisions for recovery or waste disposal regulations.

14. TRANSPORT INFORMATION

International Transport Regulations:

Regulation	UN No.	Proper Shipping Name	Class	CC ¹	PG ²	Label
ADR/RID	2788	Organotin Compound, Liquid, N.O.S. (Dibutyltin Dilaurate)	6.1	-	III	6.1
IMDG/ADNR	2788	Organotin Compound, Liquid, N.O.S. (Dibutyltin Dilaurate)	6.1	-	III	6.1
IATA	2788	Organotin Compound, Liquid, N.O.S. (Dibutyltin Dilaurate)	6.1	-	III	6.1
Marine Pollutant: YES		Additional Information:				

KEY: CC¹ = Classification Code / PG² = Packing Group

15. REGULATORY INFORMATION

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

Chemical Safety Report (Carried out on component substances):

No data available at this time.

Hazard Symbols:



T; Toxic

N; Dangerous for the Environment

Contains: Dibutyltin Dilaurate

Risk Phrases:

- | | |
|--------|--|
| R22 | Harmful if swallowed. |
| R38 | Irritating to skin. |
| R48/25 | Toxic: danger of serious damage to health by prolonged exposure if swallowed. |
| R60 | May impair fertility. |
| R61 | May cause harm to the unborn child. |
| R68 | Possible risk of irreversible effects. |
| R50/53 | Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |

Safety Phrases:

- | | |
|-----------|---|
| S1/2 | Keep locked up and out of the reach of children. |
| S28 | After contact with skin, wash immediately with plenty of soap. |
| S29 | Do not empty into drains. |
| S36/37/39 | Wear suitable protective clothing, gloves and eye/face protection. |
| S45 | In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). |
| S46 | If swallowed, seek medical advice immediately and show this container or label. |
| S53 | Avoid exposure - obtain special instructions before use. |
| S60 | This material and its container must be disposed of as hazardous waste. |
| S61 | Avoid release to the environment. Refer to special instructions/Safety data sheets. |

16. OTHER INFORMATION

Sources of Key Data:

Component material, supplier's safety data sheets. REACH Regulation (EC) No 1907/2006 ANNEX II. The full text of any risk and safety phrases applicable to this product are listed in section 15. For the full text of any risk and safety phrases listed in section 3 which are not applicable to this product, reference should be made to the appropriate regulatory guidance.

Uses and Restrictions:

This product must not be used in applications other than those recommended in Section 1, without first seeking the advice of the supplier.

SDS Distribution:

The information in this document should be made available to all who may handle the product, but is not intended for the general public.

Regulatory Reference:

Environmental Protection Act 1990 (as amended). Health and Safety at Work Act 1974. Consumers Protection Act 1987. Control of Pollution Act 1974. Environmental Act 1995. Factories Act 1961. Carriage of Dangerous Goods by Road and Rail (Classification, Packaging and Labelling) Regulations. Chemicals (Hazard Information and Packaging for Supply) Regulations 2002. Control of Substances Hazardous to Health Regulations 1994 (as amended). Road Traffic (Carriage of Dangerous Substances in Packages) Regulations. Merchant Shipping (Dangerous Goods and Marine Pollutants) Regulations. Road Traffic (Carriage of Dangerous Substances in Road Tankers in Tank Containers) Regulations. Road Traffic (Training of Drivers of Vehicles Carrying Dangerous Goods) Regulations. Reporting of Injuries, Diseases and Dangerous Occurrences Regulations. Health and Safety (First Aid) Regulations 1981. Personal Protective Equipment (EC Directive) Regulations 1992. Personal Protective Equipment at Work Regulations 1992.

Disclaimer:

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

