

JOBLING PURSER LIMITED - SAFETY DATA SHEET (SDS)

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

Product Identification Number: ROCBINDA PRIMER
Use: Cold applied surface primer.

Company Identification:

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2. HAZARDS IDENTIFICATION

Preparation classified according to 1999/45/EC:

Flammable. Harmful by inhalation and in contact with skin. Irritating to eyes, respiratory system and skin. May cause sensitisation by inhalation and skin contact. Vapours may form explosive mixtures with air.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	EINECS No.	REACH No.	%	Classification
Xylene, Mixture of Isomers	215-535-7	-	>50 <70	Xn; R10, R20/21, R38
Diphenylmethane-4,4'-Di-Isocyanate	202-966-0	-	<10	Xn; R20, R36/37/38, R42/43

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 inhalation of mists, fumes or vapour causes irritation to the nose or throat, remove to fresh air. If rapid recovery does not occur, obtain medical attention.

Skin Contact:

Wash off immediately with soap and plenty of water removing all contaminated clothing and footwear. If persistent irritation occurs, obtain medical attention.

Eye Contact:

Flush with cold water for at least 15 minutes. Obtain medical attention.

Ingestion:

Wash mouth out with water. Do not induce vomiting. Obtain medical attention immediately.

5. **FIRE-FIGHTING MEASURES**

Suitable Extinguishing Media:

Foam, dry chemical powder, carbon dioxide, sand or earth may be used for small fires only. Use water spray or fog to cool containers.

Unsuitable Extinguishing Media:

Do not use water in a jet.

Specific Exposure Hazards:

Hazardous combustion products may include: A complex mixture of airborne solid and liquid particulates and gases (smoke). Carbon monoxide, sulphur oxides, isocyanate vapours and small amounts of Hydrogen Cyanide. Unidentified organic and inorganic compounds. Boil-over and violent eruptions may occur in the presence of water.

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 spray or fog.

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. Eliminate all sources of ignition. Ensure sufficient ventilation and/or use compressed air or fresh air respiratory equipment in confined spaces. 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: Eliminate all sources of ignition. Absorb into dry earth or sand and shovel into a suitable clearly marked container for disposal or reclamation in accordance with local regulations. Do not use equipment in clean up procedure which may produce sparks.

Large spillage: If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid. Prevent from spreading by making a barrier with sand, earth or other containment material. Treat residues as for small spillages.

7. **HANDLING AND STORAGE**

General Precautions:

Avoid direct contact with the product and avoid exposure to volatile organic compounds. Employ good standards of personal hygiene. Keep containers closed when not in use.

Handling Precautions:

Take precautions to avoid unwanted static electricity. Electrostatic charges may be generated during pumping and filling operations. Ensure electrical continuity of all equipment via appropriate earthing and bonding. Use non-sparking tools.

Vapours can spread at ground level and in low areas and form explosive mixtures with air. When handling indoors, ensure adequate ventilation. For quality, health and safety reasons do not exceed the recommended ambient storage and handling temperature.

Storage Precautions:

Store in properly labelled containers intended for this product. Store containers in a dry, well-ventilated place. Ensure that there are no naked flames, hot elements or other sources of ignition in the storage areas.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limit Values:

Material	Source	TWA mg/m3	STEL mg/m3	Method
Diphenylmethane-4,4'-Di-Isocyanate	EH40 WEL	0.02	0.07	-
Xylene, Mixture of Isomers	EH40 WEL	220	441	-

Exposure Controls:

General Information :

Avoid vapours from materials to prevent exposure to potentially harmful/irritating 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 volatile organic compounds 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. i.e. Gas/vapour filter, type A: organic vapours (EN141) or self contained breathing apparatus.



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. 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:	Brown liquid.
Auto Flammability (°C):	~500
Boiling point (°C):	137 (Approx.)
Explosive Limits – lower/upper vol.%	1.1 - 7
Flashpoint (°C):	Closed Cup: 25
Melting point/ range (°C):	-30 (Xylene)
Octanol/water Partition Coefficient:	Log (K _{ow}) 3.1 – 3.2
Odour:	Characteristic of aromatic solvent.
pH value:	Not applicable.
Relative Density:	~1.00
Solubility in water:	Negligible.
Vapour Pressure:	7 mm/Hg @ 20°C (Approx.)
Viscosity:	No data available.

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 temperature, will cause degradation and evolution of flammable vapours.

Materials to Avoid:

Do not allow hot material to contact water or liquids as this can cause violent eruptions, splatter hot material, or ignite flammable material. Reacts with strong oxidising agents and acids.

Hazardous Decomposition Products:

Burning can produce Carbon Dioxide, Carbon monoxide, Oxides of Nitrogen and Sulphur, Polycyclic Aromatic Hydrocarbons and Hydrogen sulphide, isocyanate vapours and small amounts of Hydrogen Cyanide.

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 :

Diphenylmethane-4,4'-Di-Isocyanate; Oral (Mouse) LD50 2200 mg/kg. Oral (Rat) LD50 9200 mg/kg. Xylene; Oral (Mouse) LD50 2119 mg/kg. Oral (Rat) LD50 4300 mg/kg.

Acute Inhalation Toxicity :

Vapours may irritate eyes and respiratory system. Over exposure may cause nausea and vomiting, headache, dizziness and tiredness. May ultimately cause unconsciousness. May cause sensitisation by inhalation and skin contact.

Skin Irritation:

Expected to be irritating and repeated exposure may cause skin dryness and cracking, defatting the skin leading to dermatitis. May cause sensitisation by inhalation and skin contact.

Eye Irritation:

Vapours may irritate eyes. Contact will cause intense smarting and irritation. May cause sensitisation by inhalation and skin contact.



Respiratory Irritation:

Inhalation of vapours or mists may cause irritation to the respiratory system. May cause sensitisation by inhalation and skin contact.

Corrosivity:

There is no indication that the material exhibits corrosivity effects.

Sensitization:

There is indication that the material is a skin sensitizer.

CMR Effects:

Carcinogenicity:

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

Mutagenicity:

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

Toxicity for Reproduction:

No data available.

12.

ECOLOGICAL INFORMATION

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

Eco Toxicity:

The product is not water soluble but is expected to be Toxic to aquatic organisms. Test results from the component solvent indicate that the aquatic toxicity is in the range of LL/EL/IL50 2.6-8.4 mg/l (to aquatic organisms). The other components reacts with water at the interface forming CO₂ and a solid insoluble product with high melting point (polyurea). The reaction is accelerated by surfactants (e.g. detergents) or by water soluble solvents. Previous experience has shown that polyurea is inert and non-degradable. Expected to be practically non toxic: LL/EL/IL50 > 100 mg/l (to aquatic organisms) (LL/EL50 expressed as the nominal amount of product required to prepare aqueous test extract).

Mobility:

Adsorbs to soil and has low mobility. In water will either float or sink, showing little tendency to disperse, the product will adsorb to the sediment. Release of the material into water will result in the Solvent component creating a film of hydrocarbons floating on the surface, leading to volatilisation into the air. In air these hydrocarbons react readily with hydroxyl radicals.

Persistence and degradability:

The product expected to be partially biodegradable. The Solvent component is considered to be readily biodegradable, is likely to bioaccumulate, but with short retention of the order of a week or less.

Bioaccumulative Potential:

In practice, the product has very low water solubilities and high molecular weight such that bioavailability to aquatic organisms is limited and therefore bioaccumulation 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	1993	Flammable Liquid, N.O.S.	3	F1	III	3
IMDG/ADNR	1993	Flammable Liquid, N.O.S.	3	F-E,S-E	III	3
IATA	1993	Flammable Liquid, N.O.S.	3	309(P&CA); 310(CAO)	III	3
Marine Pollutant: No		Additional Information: In the case of goods of Class 3, Packing Group III, if transported at less than 1000 Litres total, ADR regulation need not apply provided the total quantity of dangerous goods on the vehicle throughout the journey does not exceed this specified limit.				

KEY: CC¹ = ADR Tunnel Classification Code/IMDG = Ems 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 with the preparation):

No data available at this time.

Hazard Symbols:



Xn: Harmful
 Contains:
 Xylene, Mixture of Isomers
 Diphenylmethane-4,4'-Di-Isocyanate

Risk Phrases:

- R10 Flammable.
- R20/21 Harmful by inhalation and in contact with skin.
- R36/37/38 Irritating to eyes, respiratory system and skin.
- R42/43 May cause sensitisation by inhalation and skin contact.

Safety Phrases:

- S2 Keep out of reach of children.
- S16 Keep away from sources of ignition - No smoking.
- S23 Do not breathe vapour.
- S25 Avoid contact with eyes.
- S36/37 Wear suitable protective clothing and gloves.
- S51 Use only in well-ventilated areas.
- S60 This material and its container must be disposed of as hazardous waste.

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.