


## DUCT SEAL

## SAFETY DATA SHEET

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1. Identification of the substance / preparation and of the company / undertaking	
Product Name	Duct Seal
Use of the substance / preparation	Solvent based rubber insulation adhesive
Manufacturer / Supplier	Armancell India Private Limited, Gat No. 744 & 745, Village Lonikand, Pune Nagar Road, Pune-412216.
Telephone:	20 782000 Fax: 020 66782020.
2. Hazards identification	
Classification of the substance or mixture	Highly flammable
Emergency overview	Irritating to eye and skin. Moderate respiratory tract irritant. Harmful if swallowed.
Label elements (Directive 67/548/EEC or 1999/45/EC)	 F ; Highly flammable
Danger symbol and danger designation	 Xi ; Irritant
	 N ; Dangerous for the environment
Other hazards	None
Additional information	HMIS Rating: - Health – 2 - Flammability – 4 - Reactivity – 0
3. Composition / information on ingredients	
Mixtures Hazardous components	
RUBBER	CAS-No.: 9010-98-4
RESIN	CAS-No.: 64742-16-1
ETHYL ACETATE	CAS-No.: 141-78-6
ACETONE	CAS-No.: 67-64-1
OTHER SOLVENTS	CAS-No.: 1330-20-7
4. First aid measures	
After inhalation	If inhaled, immediately take the affected person to fresh air. Give sufficient oxygen. If not breathing, give artificial respiration. Get medical attention, if symptoms develop.
After skin contact	Rinse with running water and soap. Remove all contaminated clothing.
After eye contact	In case of contact with the eyes, rinse immediately with plenty of water, and seek immediate medical attention.
After ingestion	Do not induce vomiting, seek medical advice immediately.
Most important symptoms and effects, both acute and delayed	None
Indication of any immediate medical attention and special treatment needed	None
5. Fire fighting measures	
Suitable extinguishing media	Use water spray, foam, dry chemical or carbon dioxide.
Auto ignition temperature	Not available
Flammable/Explosive limits-lower	Not available
Flammable/Explosives limits-upper	Not available
Special fire fighting procedure	Person exposed to combustion should wear self-contained breathing apparatus



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	and full protective equipment.
<b>Unusual fire or explosion hazards</b>	Closed containers may explode when exposed to extreme heat. Vapours may form explosive mixtures with air. Vapours are heavier than air and may travel along floor to an ignition source.
<b>Hazards combustion products</b>	Carbon dioxide. Carbon monoxide
<b>6. Accidental release measures</b>	
<b>Special protection</b>	Exposure to the spilled material may irritate or be harmful. Follow personal protective equipment. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Evaporation of volatile substances can lead to the displacement of air creating an environment that can cause asphyxiation.
<b>Clean up</b>	Dike if necessary, contain spill with inert absorbent and transfer to containers for disposal. Keep spilled product out of sewers, watersheds or water systems. Shut off ignition sources, including electrical equipment and flames. Do not allow smoking in the area.
<b>7. Handling and storage</b>	
<b>Handling</b>	Avoid contact with skin and eyes. Application, processing: provide good ventilation and extraction. Keep away from heat, sparks and flame. Wash thoroughly after handling. Keep the container closed. Do not cut or weld on or near this container.
<b>Storage</b>	Store in a cool, dry and ventilation location. Keep away from heat, sparks, flame and other source of ignition. Keep container closed.
<b>8. Exposure controls / personal protection</b>	
<b>Control parameters</b>	
<b>Solvents (CAS-No.: 141-78-6)</b>	Specification: ACGIH exposure limit Value: 54ppm TWA Specification: OSHA Value: 635 ppm TWA, NA
<b>Personal Protective equipment</b>	
<b>Gloves</b>	Nitrile
<b>Respiratory protection</b>	Respiratory protection may be required to avoid over exposure when handling this product. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms. NIOSH approved air purifying respirator with organic vapour cartridge. Respirators should be selected by and used following requirement found in OSHA's respirator standard (29 CFR 1910.134).
<b>Eye protection</b>	Wear safety glasses when handling this product.
<b>Skin protection</b>	Avoid skin contact by wearing chemically resistant gloves. Skin absorption may potentially contribute to the overall exposure to this material. Appropriate measures should be taken to prevent absorption so that the TVL is not invalidated.
<b>Ventilation</b>	Use local exhaust ventilation or other engineering controls to minimize exposures.
<b>Additional information about Engineering measures</b>	None
<b>9. Physical and chemical properties</b>	
<b>Form</b>	Liquid
<b>Flash Point</b>	> 10 °C
<b>Viscosity @ 30 °C</b>	700-1200 cps
<b>Specific Gravity</b>	0.80 to 0.85 g/cc
<b>Solid %</b>	17.00 –19.00 %
<b>Coverage</b>	6 – 8 m <sup>2</sup> / lit
<b>Service Temperature</b>	5 to 85 °C
<b>10. Stability and reactivity</b>	



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<b>Stability</b>	Stable under normal conditions
<b>Chemical Incompatibility</b>	Strong oxidizing agents
<b>Hazardous Polymerization</b>	Will not occur
<b>Hazardous Decomposition Products</b>	Carbon monoxide, carbon dioxide chlorine containing gases
<b>11. Toxicological information</b>	
<b>Component</b>	LD 50/LC 50
<b>Hexane</b>	Oral LD 50, Rat = 28710 mg/kg Inhalation LC 50 Rat = 48000ppm
<b>Other Components</b>	Not applicable
<b>12. Ecological information</b>	
<b>Persistence and degradability</b>	Physical-chemical removability.
<b>13. Disposal considerations</b>	
	Please note: as per local municipal law or any other concerned authority.
<b>14. Transport information</b>	
<b>UN number</b>	1133
<b>UN proper shipping name</b>	IMO/IMDG-Code: ADHESIVES ICAO/IATA: ADHESIVES
<b>Transport hazard class (es)</b>	
<b>IMDG-Code</b>	Class : 3
<b>ICAO/IATA</b>	Class : 3
<b>Packing group</b>	II
<b>Environmental hazards</b>	None
<b>Special precautions for user</b>	The shipping classifications in this section are for non-bulk packaging only (unless otherwise specified). Shipping classification may be different for bulk packaging.
<b>15. Regulatory information</b>	
<b>Safety, health and environmental regulations/legislation specific for the substance or mixture</b>	
<b>National regulatory information</b>	National regulations must be observed.
<b>Emission control act ("TA-Luft")</b>	Weight fraction (number 5.2.5. I) : < 1 %
<b>Water pollution classification</b>	Class : 2 classification according to VwVwS
<b>Other regulations</b>	Please consider possible restrictions of occupation after maternity protection guideline regulation or law for the protection of young workers
<b>International regulatory information</b>	Information to classification: according to test results of used raw materials R 51/53 is assigned.
<b>Chemical safety assessment</b>	There are no data available on the product itself
<b>16. other information</b>	
<b>Further information</b>	Information on Armacell Safety Data Sheets is drawn from a variety of sources, including raw materials supplier data, and other published sources. Occupational Exposure Limits, where applicable, are taken from HSE Guidance Note no. EH40/01.
<b>Relevant changes</b>	



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