

MATERIAL SAFETY DATA SHEET

This Material Safety Data Sheet meets or exceeds the requirements of the Canadian Controlled Product Regulations (WHMIS)

1. Product and Supplier Identification

Product: Dek-Master Pro Exterior Contact Adhesive

Product Use: Adhesive

Manufacturer: Ducan Industries Ltd.
1920 Broadway Street,
Port Coquitlam, BC Canada, V3C 2N1
Emergency Telephone: (604) 942-0722

Supplier: As above

2. Composition

Component	% (w/w)	Exposure Limits/ ACGIH	LD ₅₀	LC ₅₀
Rubber Solvent 12 CAS # 64742-89-8	15-40	TLV-TWA 400 ppm	8,000 mg/kg (rat/oral)	N/AV
Acetone CAS # 67-64-1	15-40	TLV-TWA 750 ppm	3,000 mg/kg (Mouse Oral)	N/AV
Toluene CAS # 108-88-3	7-13	TLV-TWA 100 ppm	5,000 mg/kg (rat/oral)	N/AV

3. Hazards Identification

Emergency overview: Colourless liquid with a characteristic aromatic odour. Vapour is heavier than air and may spread long distances. Distant ignition and flashback are possible. During a fire, irritating/toxic fumes and smoke may be generated. High vapour concentrations may cause headache, nausea, dizziness, drowsiness, in coordination, and confusion. Extreme exposures may result in unconsciousness and death. May be irritating to the respiratory tract, eyes. POSSIBLE REPRODUCTIVE TOXIN – may cause fetotoxicity, based on animal evidence. Aspiration hazard – Swallowing or vomiting of the liquid may cause aspiration into the lungs.

Routes of Entry:

Skin Contact: Yes

Eye Contact: Yes

Ingestion: Yes

Inhalation: Yes

Acute Health Effects:

Inhalation: Inhalation of vapours may cause depression of the Central Nervous System, with symptoms such as headache, dizziness, nausea, and vomiting. Extremely high concentrations of vapours (exceeding 10000 ppm) could cause in coordination, loss of consciousness, respiratory failure, and death. In some cases, a potential fatal accumulation of fluid in the lungs may result.

Skin Contact: Skin contact will lead to overall exposure. Skin contact may show redness, irritation and a burning sensation.

Eye Contact: This product is a mild eye irritant, based on animal data

Ingestion: This product is slightly toxic by ingestion. Ingestion represents an aspiration hazard through either swallowing or vomiting. Ingestions of large quantities may lead to the same symptoms as listed in the Inhalation Section above.

Chronic Health Effects:

Repeated or prolonged exposure can cause drying and cracking of the skin. This product is a reproductive toxin in that animal evidence indicates that a fetus may be injured through prolonged exposure to ingredients in this product. May cause allergic respiratory and/or skin reaction, or sensitization in susceptible persons. This effect may be delayed several hours after exposure.

4. First Aid Measures

Eye Contact: Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 20 minutes or until the chemical is removed, while holding the eyelid(s) open. Obtain medical attention immediately or transport to a medical facility and continue to flush the eyes en route.

Skin Contact: Avoid direct contact, wear chemical resistant protective clothing. As quickly as possible, remove contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Quickly and gently blot or brush away excess chemical. Wash gently and thoroughly with water and non-abrasive soap for at least 20 minutes or until chemical is removed. Obtain medical advice immediately. Completely decontaminate clothing, shoes and leather goods before re-use or discard.

Inhalation: Remove source of contamination or move victim to fresh air. If breathing is difficult, oxygen may be beneficial if administered by trained personnel, preferably on a doctor's advice. DO NOT allow the victim to move about unnecessarily. Symptoms of pulmonary edema can be delayed up to 48 hours after exposure. Immediately transport victim to an emergency care facility.

Ingestion: Never give anything by mouth if victim is rapidly losing consciousness. Have victim rinse mouth thoroughly with water. **Do not induce vomiting.** Dilute contents of stomach with 240 to 300 ml of water. If vomiting occurs naturally have victim lean forward to reduce risk of aspiration. Seek immediate medical attention.

5. Fire Fighting Measures

Flash point:	< 18 °C Tag Closed Cup
Autoignition temperature:	N/E
Lower Explosive Limit:	N/E
Upper Explosion Limit:	N/E
Sensitivity to Impact:	Not sensitive.

Sensitivity to Static Discharge: Low

Hazardous Combustion Products: Carbon monoxide, carbon dioxide and unidentifiable hydrocarbons in smoke.

Extinguishing Media: Carbon dioxide, foam, water spray or fog. Firefighting foams are the extinguishing agent of choice for most flammable liquid fires. Water may be ineffective since it may not cool the product below its flash point.

Fire Fighting Instructions: Evacuate area and fight fire from a safe distance or a protected location. Approach fire from upwind to avoid hazardous vapours and toxic decomposition products. Do not enter confined fire space without proper personal protection. Use approved positive pressure self-contained breathing apparatus. If possible, isolate materials not yet involved in the fire, and move containers from fire area if this can be done without risk, and protect personnel. Otherwise, fire-exposed containers or tanks should be cooled by application of hose streams and this should begin as soon as possible and should concentrate on any unwetted portions of the container.

6. Accidental Release Measures

Personal Protection: See Section 8 for proper protective equipment to be worn while cleaning an accidental spill.

Environmental Precautions: Prevent product from entering sewers, natural waterways, or confined spaces.

Cleanup Procedures: Restrict access to area until completion of cleanup. Stop the flow if it can be done safely. Extinguish or remove all ignition sources. Soak up spill with absorbent that does not react with product. Put contaminated material into the proper covered, labeled containers for disposal. Contaminated absorbent may pose the same hazards as the spilled product.

7. Handling and Storage

Handling Procedures: Before handling this product, employees must be trained on the hazards and safe use. Before handling, it is imperative that the personal equipment requirements and personal hygiene measures be followed. Inspect containers for damage or leaks before handling. Unprotected persons should avoid all contact with this product including contaminated equipment. Use in smallest quantities in a well ventilated area. Do not use with incompatible materials such as strong oxidizing compounds and alkali metals. Ensure all containers are correctly labeled indicating hazards. Keep container tightly closed when not in use. Wash face and hands thoroughly after handling, and before eating, drinking, or using tobacco products.

Storage: Store in cool, dry, well ventilated area out of direct sunlight, and away from heat and ignition sources.

8. Exposure Controls, Personal Protection

Engineering Controls: If used indoors, ensure adequate ventilation by using local exhaust. Prevent handling methods that will increase airborne vapours.

Respiratory Protection: For vapour concentrations up to 900 ppm, use chemical cartridge respirator with organic vapour cartridge, or power air-supplied respirator with organic vapour

cartridge (TC19C NIOSH). For concentrations exceeding 900 ppm, use of self-contained breathing apparatus is recommended. No persons should be allowed in the area where this product is being used unless equipped with the same respiratory protection.

Skin Protection: Use chemical protective gloves, coveralls, aprons, overshoes.

Eye and Face Protection: Chemical splash-proof goggles, safety glasses with unperforated side shields.

Footwear: Chemical resistant boots or overshoes.

Other: Eye wash station should be located near work area.

9. Physical and Chemical Properties

Appearance and Odour:	Straw coloured, Viscous Liquid With hydrocarbon order	Evaporation Rate:	N/E (n-butyl acetate =1)
Odour Threshold:	N/E	pH:	Not applicable
Physical State:	Liquid	Solubility in water:	Negligible
Boiling Point:	N/E	Melting Point	N/E
Vapour Pressure:	N/E	Critical Temperature:	Not applicable.
Vapour Density:	> 1 (air=1)	Specific Gravity:	0.81 (water = 1)
		Partition Coefficient:	N/E
		Volatiles:	79-80%

10. Stability and Reactivity

Chemical Stability and Reactivity: Product is normally stable to heat, light and air.

Incompatibility: Avoid contact with strong oxidizing agents, strong mineral acids.

Hazardous Decomposition Products: None reported.

Conditions to Avoid: Open flames, sparks, electrostatic discharge, heat and other ignition sources, light.

Hazardous Polymerization: Does not occur

11. Toxicological Information

Acute Exposure:	Flammable and toxic (reproductive hazard). LD ₅₀ and LC ₅₀ listed in Section 2.
Chronic Exposure:	See Section 3.
Exposure Limits:	See Section 2.
Irritancy:	See Section 3.
Sensitization:	See Section 3.
Carcinogenicity:	Information not available
Teratogenicity:	Fetotoxic results have been demonstrated in some tests.
Reproductive toxicity:	Information not available
Mutagenicity:	Information not available.
Synergistic products:	None known.

12. Ecological Information

Environmental toxicity: No data available.

Biodegradability: No data available.

13. Disposal Considerations

Canadian Environmental Protection Act: All ingredients are listed on the DSL. Dispose according to all local, provincial and federal requirements.

14. Transport Information

Canadian Transportation of Dangerous Goods Regulations: Adhesives, Class 3, UN 1133, P.G. III

International Air Transport Association (IATA): Adhesives, Class 3, UN 1133, P.G. III

International Maritime Organization (IMO): Adhesives, Class 3, UN 1133, P.G. III,
Flash Point = $<18^{\circ}\text{C}$, EmS No F-E,S-D
Stowage Category "A"

15. Regulatory Information

Canadian Federal Regulations:

Canadian Environmental Protection Act: All ingredients are on the Domestic Substances List.
WHMIS Classification: B2, D2B

16. Other Information

Preparation Date: October 04, 2004

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Disclaimer: This Material Safety Data Sheet was prepared using information provided by CCINFO. The information in the Material Safety Data Sheet is offered for your consideration and guidance when exposed to this product. The data in this MSDS does not apply to use with any other product or in any other process.

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