



SAFETY DATA SHEET

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TWO COMPONENT MS 2-1 HARDNER EXPRESS

Revision 0
Revision date 13-Oct-2006

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

Product name TWO COMPONENT MS 2-1 HARDNER EXPRESS

Company Pro-Spray Automotive Finishes Ltd
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Product code ICA-690

2. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients

	Conc.	CAS	EINECS	Symbols/Risk phrases
Toluene	20-30%	108-88-3	203-625-9	F; R11 Repr Cat 3; R63 Xn; R48/20-65 Xi; R38 R67
n-Butyl acetate (Butyl acetate)	10-20%	123-86-4	204-658-1	R10 R66 R67
hexane, 1,6-diisocyanato-, homopolymer	40-50%	28182-81-2	500-060-2	Xi; R43

3. HAZARDS IDENTIFICATION

Main hazards Highly flammable. Irritating to skin. May cause sensitisation by skin contact. Harmful: danger of serious damage to health by prolonged exposure through inhalation. Possible risk of harm to the unborn child. Harmful: may cause lung damage if swallowed. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

4. FIRST AID MEASURES

Skin contact May cause irritation to skin. May cause dermatitis. Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.

Eye contact May cause irritation to eyes. Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention if irritation or symptoms persist.

Inhalation Harmful by inhalation. Inhalation may cause nausea and vomiting. May cause dizziness and headache. Move the exposed person to fresh air. Seek medical attention.

Ingestion Harmful if swallowed. Ingestion may cause nausea and vomiting. Ingestion is irritating to the respiratory tract and may cause damage to the central nervous system. DO NOT INDUCE VOMITING. If swallowed, seek medical advice immediately and show this container or label.

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5. FIRE FIGHTING MEASURES

Extinguishing media	Use as appropriate: carbon dioxide (CO ₂). Do NOT use water jet, dry chemical, foam.
Fire hazards	Burning produces irritating, toxic and obnoxious fumes. Fire will produce dense black smoke.
Protective equipment	Self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Ensure adequate ventilation of the working area. Eliminate all sources of ignition. Wear suitable protective equipment.
Environmental precautions	Do not allow product to enter drains. Prevent further spillage if safe.
Clean up methods	Absorb with inert, absorbent material. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water. Do not allow runoff water to enter sewers or drains. Advise local authorities if large spills cannot be contained.

7. HANDLING AND STORAGE

Handling	Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Use explosion proof equipment. In use, may form flammable/explosive vapour-air mixture. Vapours are heavier than air. Keep away from sources of ignition - No smoking. Adopt best Manual Handling considerations when handling, carrying and dispensing.
Storage	Keep in a cool, dry, well ventilated area. Keep containers tightly closed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits

Toluene	WEL 8-hr limit ppm: 50 WEL 15 min limit ppm: 150	WEL 8-hr limit mg/m ³ : 191 WEL 15 min limit mg/m ³ : 574
n-Butyl acetate (Butyl acetate)	WEL 8-hr limit ppm: 150 WEL 15 min limit ppm: 200	WEL 8-hr limit mg/m ³ : 724 WEL 15 min limit mg/m ³ : 966

Engineering measures	Ensure adequate ventilation of the working area.
Respiratory protection	Self-contained breathing apparatus. Wear protective clothing.
Hand protection	Chemical resistant gloves (PVC)
Eye protection	Approved safety goggles.
Protective equipment	Wear chemical protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Description	Liquid.
Flash point	18°C

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions.
Conditions to avoid	Heat, sparks and open flames.
Materials to avoid	Oxidising agents. Acids. Alkaline solution.
Hazardous decomposition products	Carbon oxides. Nitrogen oxides.

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11. TOXICOLOGICAL INFORMATION

Acute toxicity	No data is available on this product. Exposure above the recommended occupational exposure limit (OEL) may cause adverse health effects. Inhalation is irritating to the respiratory tract and may cause damage to the central nervous system.
Corrosivity	May cause irritation to eyes and respiratory system.
Repeated or prolonged exposure	May cause dermatitis.

12. ECOLOGICAL INFORMATION

Ecotoxicity	No data is available on this product.
Further information	Do not allow product to enter drains.

13. DISPOSAL CONSIDERATIONS

General information	Dispose of in compliance with all local and national regulations.
Disposal of packaging	Containers must be recycled in compliance with national legislation and environmental regulations.

14. TRANSPORT INFORMATION

ADR/RID

UN 1263	Packing group II
Class 3	Hazard ID 33
Proper Shipping Name PAINT RELATED MATERIAL .	

IMDG

UN 1263	Packing group II
Class 3	Marine pollutant .
EmS Code F-E S-E	



IATA

UN 1263	Packing group II
Class 3	Subsidiary risk -
Packing Instruction 307 (Cargo)	Maximum quantity 60 L
Packing Instruction 305 (Passenger)	Maximum quantity 5 L

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15. REGULATORY INFORMATION

Labelling	The product is classified in accordance with 67/548/EEC.
Symbols	F - Highly flammable; Xn - Harmful  
Risk phrases	R11 - Highly flammable. R38 - Irritating to skin. R43 - May cause sensitisation by skin contact. R48/20 - Harmful: danger of serious damage to health by prolonged exposure through inhalation. R63 - Possible risk of harm to the unborn child. R65 - Harmful: may cause lung damage if swallowed. R66 - Repeated exposure may cause skin dryness or cracking. R67 - Vapours may cause drowsiness and dizziness.
Safety phrases	P4 - Contains isocyanates. See information supplied by the manufacturer. S16 - Keep away from sources of ignition - No smoking. S24 - Avoid contact with skin. S37 - Wear suitable gloves. S62 - If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

16. OTHER INFORMATION

Text of risk phrases in Section 2	R10 - Flammable. R11 - Highly flammable. R38 - Irritating to skin. R43 - May cause sensitisation by skin contact. R48/20 - Harmful: danger of serious damage to health by prolonged exposure through inhalation. R63 - Possible risk of harm to the unborn child. R65 - Harmful: may cause lung damage if swallowed. R66 - Repeated exposure may cause skin dryness or cracking. R67 - Vapours may cause drowsiness and dizziness.
Further information	The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.