FORTIS THROUGH CURE CATALYST

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name	Fortis Through Cure Catalyst
Product Code	-
Other Names	-
Product Use	Used for adjusting the viscosity and cure rate of Fortis moisture curing polyurethanes at low temperatures.
Supplier Name	Fortis Adhesives and Coatings
Address	177-179 Ordish Road Dandenong South VIC 3175
Telephone Number	03 9706 5448
Emergency Telephone	0425 883 566

2. HAZARDS IDENTIFICATION

HAZARDOUS SUBSTANCE. DANGEROUS GOODS.
Classified as hazardous according to the criteria of Safe Work Australia.

Hazards	T - Toxic F - Flammable
Risk Phrases	R36/37/38 - Irritating to eyes, respiratory system and skin. R61 - May cause harm to the unborn child.
Safety Phrases	S2 - Keep out of reach of children. S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). S53 - Avoid exposure-obtain special instructions before use.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient (common name)	CAS Number	Proportion
1-methoxy-2-propyl acetate	108-65-6	>60%
n-methylpryrrolidone	872-50-4	10-30%

4. FIRST AID MEASURES

Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.
Ingestion	Do not induce vomiting. Give water to drink. Never give anything by mouth to an unconscious person. Seek medical attention.
Skin	If skin or hair contact occurs, immediately remove contaminated clothing and wash skin and hair thoroughly with soap and plenty of water. Seek medical attention if symptoms occur.
Eyes	If in eyes, hold eyelids apart and flush the eyes continuously with running water. Continue flushing for several minutes until all

contaminants are washed out completely. Seek immediate medical attention.

5. FIRE FIGHTING MEASURES

	For major fires call the Fire Brigade. Ensure that an escape path is available from any fire.
Suitable Extinguishing Media	Foam and dry agent (carbon dioxide, dry chemical powder).
Hazardous Combustion Products	Oxides of carbon.
Firefighting Equipment	Wear Safe Work Australia approved self-contained breathing apparatus and full protective clothing.
Unusual Fire or Explosion Hazards	Flammable liquid. May form flammable vapour mixtures with air. Avoid all ignition sources. Heating can cause expansion or decomposition of the material, which can lead to the containers exploding. If safe to do so, remove containers from the path of fire. Keep containers cool with water spray.
Hazchem Code	3[Y]

6. ACCIDENTAL RELEASE MEASURES

Spills

In the event of a major spill, prevent spillage from entering drains or water courses.
Wear full protective clothing including eye/face protection and impervious elbow-length gloves. Evacuate general area and deny access to unnecessary and unprotected personnel.
Extinguish or remove all sources of ignition. Ventilate area of leak or spill.
Stop leak if safe to do so and contain spill. Absorb with an inert material (vermiculite, dry sand, earth). Use non-sparking tools to collect the material and place into clearly labeled containers for subsequent disposal.

7. HANDLING AND STORAGE

Handling

Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Provide adequate ventilation.
Handle and use the material in a well-ventilated area, away from sparks, flames and other ignition sources. Vapour may travel a considerable distance to a source of ignition and flash back.

Storage

Store in a cool, dry, well-ventilated area away from sources of ignition, heat, naked flames, sparks and oxidising agents, Keep containers tightly closed when not in use. Protected against physical damage. Inspect regularly for damage or leaks. Take precautionary measures against static discharges. Earth or bond all equipment.
See Australian Standards AS1940 - The storage and handling of flammable and combustible liquids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Standards (Safe Work Australia)	**1-methoxy-2-propyl acetate:** TWA: 50 ppm /274 mg/m^3 STEL: 100 ppm / 548 mg/m^3 **n-methylpryrrolidone:** TWA: 25 ppm /103 mg/m^3 STEL: 75 ppm / 309 mg/m^3
Engineering Controls	Local exhaust ventilation is recommended when vapours can be released in excess of established airborne exposure limits.
Respiratory Protection	If engineering controls are not effective in controlling airborne exposure then an approved respirator or organic vapour cartridge mask should be used. See Australian Standards AS/NZS 1715 and 1716 for more information.
Eye Protection	Safety glasses with top and side shields. See Australian Standards AS 1336 and AS/NZS 1337 for more information.
Skin Protection	Impervious gloves and suitable protective work wear. See Australian Standards AS 2161 and 2919 and AS/NZS 2210 for more information.
Hygienic Practices	Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Colourless liquid
Odour	Slight odour
Solubility in Water	Partly soluble
Solubility in Organic Solvents	No information available
Boiling Point	140-150°C
Vapour Pressure (mmHg)	No information available
Relative Vapour Density (Air=1)	No information available
Specific Gravity (g/cm^3)	0.98
Flash Point	45°C
Flammable Limit – Lower	1.5%
Flammable Limit – Upper	7%
Auto-ignition Temperature	No information available

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions of use.
Incompatible Materials	Strong oxidising agents.
Hazardous Decomposition Products	Oxides of carbon.
Hazardous Polymerization	Will not occur
Conditions to Avoid	Exposure to heat, sources of ignition and open flame.

11. TOXICOLOGICAL INFORMATION

Toxicity	**1-methoxy-2-propyl acetate:** Skin LD_{50} (mouse) > 5000 mg/kg May act as an eye irritant. **n-methylpryrrolidone:** Oral LD_{50} (mouse) = 7725 mg/kg Oral LD_{50} (rat) = 3914 mg/kg Skin LD_{50} (rabbit) = 8000 mg/kg Intraperitoneal LD_{50} (rat) = 2472 mg/kg Skin, eye and respiratory irritant. May cause harm to the unborn child. **n-methyl-2-pyrrolidone is classified as toxic to reproduction development Cat. 2 by Safe Work Australia.**
Routes of Exposure	Inhalation, ingestion, eye and skin
Acute Health Effects	Inhalation: Inhalation of the vapour may irritate the nose. In high concentrations may cause headache, nausea, dizziness, drowsiness and incoordination. Ingestion: No adverse effects expected. Low toxicity. Eye: Irritant. May cause excess redness and swelling of the conjunctiva. Skin: May cause slight irritation.
Chronic Health Effects	Prolonged or repeated overexposure to vapour may result in damage to nasal tissues and the upper respiratory tract.
Existing Conditions Aggravated by Exposure	Conditions aggravated by exposure to the amines present include asthma, skin disorders and allergies, bronchitis, emphysema and eye diseases.
Carcinogenicity	This product does not contain any chemical listed by IARC.

12. ECOLOGICAL INFORMATION

Ecotoxicity	Avoid contaminating waterways.
Mobility	No information available.

13. DISPOSAL CONSIDERATIONS

Disposal methods and containers	Dispose according to applicable local and state government regulations.
Special precautions for landfill or incineration	Please consult your state Land Waste Management Authority for more information

14. TRANSPORT INFORMATION

Classified as a dangerous good according to the Australian Code for the Transport of Dangerous goods by road or rail.

UN Number	1263
Proper Shipping Name	PAINT RELATED MATERIAL (1-methoxy-2-propyl acetate & n-methyl pyrrolidone)
Dangerous Goods Class	3
Hazchem Code	3[Y]

Packing Group	III
Special Precautions	Not applicable

15. REGULATORY INFORMATION

1-methoxy-2-propyl acetate & n-methyl pyrrolidone are listed in the Australian Inventory of Chemical Substances (AICS).

Poisons Schedule: 6

16. OTHER INFORMATION

Last Revision of MSDS	Rev 1.1 (17/07/2012)
Prepared by	MSDS.COM.AU Pty Ltd www.msds.com.au
Abbreviations Used	IARC: International Agency for Research on Cancer NTP: National Toxicology Program (U.S.) OSHA: Occupational Safety and Health Administration (U.S.) STEL: Short term exposure limit TWA: Time weighted average

Emergency Contacts

Fortis Adhesives and Coatings	**03 9706 5448**
Fortis Adhesives and Coatings – Emergency Number	**0425 883 566**
Police and Fire Brigade	**000**
Poisons Information Centre	**13 11 26**

The information contained in this material safety data sheet is provided in good faith and is believed to be accurate at the date of issuance. Fortis Adhesives and Coatings makes no representation of the accuracy or comprehensiveness of the information and to the full extent allowed by law excludes all liability for any loss or damage related to the supply or use of the information in this material safety data sheet. MSDS.COM.AU Pty Ltd is not in a position to warrant the accuracy of the data herein. The user is cautioned to make their own determinations as to the suitability of the information provided to the particular circumstances in which the product is used.

Please read instructions / label before using product.

This MSDS is prepared in accord with the Safe Work Australia document “National Code of Practice for the Preparation of Material Safety Data Sheets” 2nd Edition [NOHSC:2011(2003)]