FORTIS AD210

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name	Fortis AD210
Product Code	-
Other Names	-
Product Use	Sprayable solvent based contact adhesive for polystyrene
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	Xn - Harmful F – Flammable
Risk Phrases	R11 – Highly flammable R46 - May cause heritable genetic damage. R65 - Harmful: May cause lung damage if swallowed. R67 - Vapours may cause drowsiness and dizziness.
Safety Phrases	S2 - Keep out of reach of children. S23 - Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer). S24 - Avoid contact with skin. 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. S62- If swallowed, seek medical advice immediately and show this container or label.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient (common name)	CAS Number	Proportion
Naphtha (petroleum), hydrotreated light	64742-49-0	30-60
Solvent naphtha (petroleum), light aliphatic	64742-89-8	10-30%
n-Hexane	110-54-3	<5%
Ingredients deemed not to be hazardous	Proprietary	To 100%

4. FIRST AID MEASURES

Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek immediate medical attention.
Ingestion	If swallowed do NOT induce vomiting. Never give anything by mouth to an unconscious person. Where vomiting occurs naturally have affected person place head below hip level in order to reduce risk of aspiration. Seek immediate 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	Carbon dioxide, dry chemical and foam.
Hazardous Combustion Products	Oxides of carbon and smoke.
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. Vapour may travel a considerable distance to a source of ignition and flash back. 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]E

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. Highly flammable. 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)	**n-Hexane:** TWA: 20 ppm /72 mg/m^3 STEL: - ppm / - 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	Thin red or tan liquid
Odour	Hydrocarbon odour
Solubility in Water	Immiscible
Boiling Point	55-98°C
Evaporation Rate (Air=1)	No information available
16.6	34.50 kPa @ 15°C (heptane)
Vapour Density	No information available
Specific Gravity (g/cm^3)	~ 0.75
Flash Point	< -26° C (isohexane)
Flammable Limit – Lower	1%

Flammable Limit – Upper	7.5%
Ignition Temperature	No information available

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions of storage and handling.
Incompatible Materials	Strong oxidizing agents.
Hazardous Decomposition Products	Oxides of carbon.
Hazardous Polymerization	Will not occur
Conditions to Avoid	Heat, open flames or other sources of ignition.

11. TOXICOLOGICAL INFORMATION

Toxicity

Solvent naphtha (petroleum), light aliphatic and naphtha (petroleum), hydrotreated light:
Oral LD_{50} (rat) > 2000 mg/kg
Dermal LD_{50} (rabbit) > 2000 mg/kg
Solvent naphtha (petroleum), light aliphatic and naphtha (petroleum), hydrotreated light are classified as Mutagen Category 2 by Safe Work Australia.
n-Hexane:
Oral LD_{50} (rat) = 28700 mg/kg
Inhalation LC_{50} (rat) = 48000 ppm /4 hour
May cause impaired fertility. Harmful by inhalation. Irritant. May cause CNS depression. Prolonged exposure may cause serious health damage.

Routes of Exposure

Inhalation, ingestion, eye and skin

Acute Health Effects

Inhalation: May irritate the mucous membranes of the respiratory tract (airways). May cause respiratory sensitization in sensitive individuals, producing asthma-like symptoms. Breathing in vapour can result in headaches, dizziness and possible nausea. Breathing in high concentrations can produce central nervous system depression, which can lead to loss of co-ordination, impaired judgment and if exposure is prolonged, unconsciousness.

Ingestion: Swallowing can result in nausea and vomiting. If a large amount is ingested and retained, weakness, dizziness, unconsciousness, convulsions and central nervous system depression develops. Upon aspiration into the lungs, chemical pneumonitis may develop.

Eye: Causes eye irritation.

Skin: Causes skin irritation.

Chronic Health Effects

Prolonged and repeated skin contact may cause dermatitis due to de-fatting effect.
Repeated or prolonged exposure could result in central nervous system disorders.
Repeated inhalation or skin exposure to n-hexane has been noted to cause peripheral neuropathy in exposed individuals. Both

	sensory & motor nerve damage has been documented with long term exposures > 500ppm. Cessation of exposure is not immediately followed by improvement & symptoms may even progress for 2-3 months. Final recovery may take more than one year depending on the severity of the intoxication, & may not always be complete.
Existing Conditions	No information available.
Aggravated by Exposure	
Carcinogenicity	This product does not contain any chemical listed by IARC.

12. ECOLOGICAL INFORMATION

Ecotoxicity	Toxic to aquatic organisms. Readily biodegradable. Oxidises rapidly by photo-chemical reactions in air.
Mobility	Floats on water. If product enters soil, it will be highly mobile and may contaminate groundwater. Has the potential to bio-accumulate.

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	1133
Proper Shipping Name	ADHESIVE (containing flammable liquid)
Dangerous Goods Class	3
Hazchem Code	3[Y]E
Packing Group	II
Special Precautions	Not applicable

15. REGULATORY INFORMATION

Naphtha (petroleum), hydrotreated light, solvent naphtha (petroleum), light aliphatic and n-hexane are listed in the Australian Inventory of Chemical Substances (AICS).

Poisons Schedule: 5

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**

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Please read instructions / label before using product.

his 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)]