

SAFETY DATA SHEET

REVISION DATE: 12-12-2016

SUPERSEDES: None

SECTION 1: IDENTIFICATION OF THE PRODUCT AND SUPPLIER**PRODUCT INFORMATION**

PRODUCT: ZIP GRIP
PRODUCT DESCRIPTION: Solvent based adhesive
INTENDED USE: Industrial adhesive
PRODUCT IDENTIFIER: 842349PM

COMPANY INFORMATION

H.B. Fuller Company Australia Pty. Ltd.
16 - 22 Red Gum Drive
Dandenong South, VIC 3175
Telephone: (03) 9797 6222
Emergency telephone No: 1800 033 111

SECTION 2: HAZARDS IDENTIFICATION**GHS Hazard Symbols:**

GHS Symbol name(s): Flame
Health Hazard

GHS Signal Word: Danger

GHS Classification: Flammable Liquid Category 2; Reproductive Toxicity Category 2

GHS Hazard Phrases: Highly flammable liquid and vapour.
Suspected of damaging fertility or the unborn child.

GHS Precautions:

Safety Precautions: Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Wear protective gloves/protective clothing/eye protection/face protection.

First Aid Measures: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF exposed or concerned: Get medical advice/attention. In case of fire: Use water spray, foam, dry chemical or carbon dioxide to extinguish.

Storage: Keep container tightly closed.
Store in a well-ventilated place. Keep cool.
Store locked up.

Disposal: Dispose of contents/container in accordance with local/regional/national/international regulation for hazardous wastes.

SAFETY DATA SHEET**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS #	PERCENT	Classification	Note
Aliphatic petroleum distillate	64742-49-0	30 - 50	Asp. Tox. 1; H304 Flam. Liq. 1; H224	Note P
Calcium carbonate	471-34-1	10 - 30		*(see below)
Toluene	108-88-3	5 - 10	Asp. Tox. 1; H304 Acute Tox. 4; H302 Flam. Liq. 2; H225 Repr. 2; H361 Skin Irrit. 2; H315 STOT RE 2; H373 STOT SE 3; H335, H336	
Ingredients determined to be not hazardous		52		

*This material is only hazardous when present as an airborne dust. As supplied, and during normal use, the material is encapsulated within the product and will not present an exposure risk.

SECTION 4: FIRST AID MEASURES

IF IN EYES: Immediately flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention and monitor the eye daily as advised by your physician.

IF ON SKIN: Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists.

IF INHALED: Remove to fresh air. Restore breathing, if necessary. Call a physician if symptoms persist.

IF SWALLOWED: Do not induce vomiting. Seek medical attention immediately. Drink two glasses of water or milk to dilute. Do not give anything by mouth to an unconscious person.

SECTION 5: FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA:	Use water spray, foam, dry chemical or carbon dioxide.
UNUSUAL FIRE AND EXPLOSION HAZARDS:	Vapours are heavier than air and can travel to a source of ignition and flash back.
SPECIAL FIRE FIGHTING INSTRUCTIONS:	Persons exposed to products of combustion should wear self-contained breathing apparatus and full protective equipment.
HAZARDOUS COMBUSTION PRODUCTS:	Carbon dioxide, Carbon monoxide Chlorine containing gases

SECTION 6: ACCIDENTAL RELEASE MEASURES

SPECIAL PROTECTION:	Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this MSDS. 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.
METHODS FOR CLEAN-UP:	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.

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SECTION 7: HANDLING AND STORAGE

Handling:	<p>Avoid contacting and avoid breathing the material. Use only in a well ventilated area.</p> <p>Keep away from heat, sparks and flame. Wash thoroughly after handling. Keep container closed. Emptied container retains vapour and product residue. Observe all labeled precautions until container is cleaned. Drums of this material should be grounded when pouring. DO NOT CUT OR WELD ON OR NEAR THIS CONTAINER.</p> <p>This product contains an ingredient that may release formaldehyde at heated cure temperatures.</p> <p>This product contains an ingredient that may react with water or humidity to release methanol (67-56-1). The TWA for methanol is 200 ppm.</p>
Storage:	<p>Store in a cool, dry, ventilated location. Keep away from heat, sparks, flame and other sources of ignition. Keep container closed. This product is a Class 4.1 flammable solid and must be stored according to the provisions of AS/NZS 5026.</p>

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS:

Chemical Name	Note	AUSTRALIAN EXPOSURE LIMITS	ACGIH EXPOSURE LIMITS
Calcium carbonate	* (see below)	10 mg/m ³ TWA (containing no asbestos and <1% crystalline silica, inhalable dust) None	No data available.
Toluene		50 ppm TWA; 191 mg/m ³ TWA 150 ppm STEL; 574 mg/m ³ STEL skin notation	20 ppm TWA

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Biological Limit Values (ACGIH)

Chemical Name	ACGIH Biological Exposure Index (BEI)
Toluene	0.02 mg/L Medium: blood Time: prior to last shift of workweek Parameter: Toluene; 0.03 mg/L Medium: urine Time: end of shift Parameter: Toluene; 0.3 mg/g creatinine Medium: urine Time: end of shift Parameter: o-Cresol with hydrolysis (background)

ENGINEERING CONTROL METHODS:

VENTILATION:	Use local exhaust ventilation or other engineering controls to minimise exposures.
EYE PROTECTION:	Wear safety glasses with side shields when handling this product. Wear additional eye protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material. Have an eye wash station available.
SKIN PROTECTION:	Avoid skin contact by wearing chemically resistant gloves and long sleeved shirt. An apron may be appropriate if splashing can occur. Skin absorption may potentially contribute to the overall exposure to this material. Appropriate measures should be taken to prevent absorption so that the TLV is not invalidated.
GLOVES:	Nitrile
RESPIRATORY PROTECTION:	Respiratory protection may be required to avoid overexposure when

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handling this product. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms. Use an air purifying respirator with organic vapour cartridge.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Solid
COLOR:	Yellow
ODOR:	Characteristic
ODOR THRESHOLD:	Not established
pH:	Not established
FREEZING/MELTING POINT (deg. C):	Not established
BOILING POINT (deg. C):	Not established
FLASH POINT:	-15°C; 5°F
EVAPORATION RATE:	Not established
FLAMMABILITY:	Not a flammable solid or gas
UPPER EXPLOSIVE LIMIT (% in air):	Not established
LOWER EXPLOSIVE LIMIT (% in air):	Not established
VAPOR PRESSURE (mm Hg):	Not established
VAPOR DENSITY:	Not established
WEIGHT PER GALLON (lbs.):	8.30
SPECIFIC GRAVITY:	1.000
SOLUBILITY:	Not established
OCTANOL/WATER COEFFICIENT:	Not established
AUTOIGNITION TEMPERATURE:	Not established
DECOMPOSITION TEMPERATURE:	Not established
VISCOSITY:	No data available.
SOLIDS (% by weight):	53.0

SECTION 10: STABILITY AND REACTIVITY

STABILITY:	Stable under normal conditions.
CHEMICAL INCOMPATIBILITY:	Not established
HAZARDOUS POLYMERIZATION:	Will not occur.
HAZARDOUS DECOMPOSITION PRODUCTS:	Carbon monoxide, carbon dioxide Chlorine containing gases

SECTION 11: TOXICOLOGICAL INFORMATION**Component Toxicity / Toxicology Data:**

COMPONENT NAME	LD50/LC50
Toluene	Oral LD50 Rat 636 mg/kg Inhalation LC50 Rat 12.50 mg/l

This product is a mixture. Unless noted, the information below is based on components.

Skin corrosion / irritation: No irritation hazard in normal industrial use.

Serious eye damage / irritation: No irritation hazard in normal industrial use.

Respiratory / skin sensitization: No data available.

Germ cell mutagenicity: No data available.

Carcinogenicity: Contains a material that may cause cancer.

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Reproductive toxicity: Contains a substance that is a possible reproductive hazard based on animal studies.
Specific target organ toxicity-single exposure: No data available.

Respiratory irritation / Narcotic effects: No data available.

Specific target organ toxicity-single exposure: No data available.

Target organs potentially affected by exposure: Reproductive system Liver Central nervous system Lungs

Aspiration hazard: Not an aspiration hazard.

Medical Conditions Aggravated by Exposure: Liver disease, Lung disease

SECTION 12: ECOLOGICAL INFORMATION

OVERVIEW: No ecological information available for this product.
MOBILITY: No data available.
PERSISTENCE: No data available.
BIOACCUMULATION: No data available.

This product has not been tested for ecological effects. Relevant information for components is listed below:

Component:	Ecotoxicity values:
Toluene	Acute Toxicity (Fish): 96 Hr LC50 Pimephales promelas: 15.22 - 19.05 mg/L [flow-through] (1 day old); 96 Hr LC50 Pimephales promelas: 12.6 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 5.89 - 7.81 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 14.1 - 17.16 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 5.8 mg/L [semi-static]; 96 Hr LC50 Lepomis macrochirus: 11.0 - 15.0 mg/L [static]; 96 Hr LC50 Oryzias latipes: 54 mg/L [static]; 96 Hr LC50 Poecilia reticulata: 28.2 mg/L [semi-static]; 96 Hr LC50 Poecilia reticulata: 50.87 - 70.34 mg/L [static] Acute Toxicity (Daphnia): 48 Hr EC50 Daphnia magna: 5.46 - 9.83 mg/L [Static]; 48 Hr EC50 Daphnia magna: 11.5 mg/L Acute Toxicity (Algae): 72 Hr EC50 Pseudokirchneriella subcapitata: 12.5 mg/L [static]

SECTION 13: DISPOSAL CONSIDERATIONS

This product is a prescribed waste and may only be disposed of in accordance with applicable State and local regulations. These regulations vary from jurisdiction to jurisdiction and hence the user is counselled to seek advice from the local authority and classify the waste before considering disposal. The disposal information given below is a general guide and does not replace the requirement of the local regulations.

DISPOSAL: If possible recycle, otherwise dispose strictly in accordance with local industrial waste or environmental protection regulations. This substance may, if permitted by local authorities, be disposed of in an approved incineration facility or be considered for landfill.

SPECIAL PRECAUTIONS: Do not allow this material to contaminate soil, sewerage systems or surface or ground water.

When large amounts of this product need to be disposed of the services of a registered, professional waste disposal organisation is highly recommended.

SECTION 14: TRANSPORT INFORMATION

Consult Bill of Lading for transportation information.

ADG: UN1325, FLAMMABLE SOLID, ORGANIC, N.O.S. (PETROLEUM DISTILLATES, TOLUENE), 4.1, PGIII.
IATA: UN1325, FLAMMABLE SOLID, ORGANIC, N.O.S. (PETROLEUM DISTILLATES, TOLUENE), 4.1, PGIII.

Print Date: 12-12-2016

ZIP GRIP
842349PM**SAFETY DATA SHEET**

IMDG: UN1325, FLAMMABLE SOLID, ORGANIC, N.O.S. (PETROLEUM DISTILLATES, TOLUENE), 4.1, PGIII.
HazChem Code: 1Z

SECTION 15: REGULATORY INFORMATION**INVENTORY STATUS**

AUSTRALIA AICS: All ingredients in this mixture are listed in the Australian Inventory of Chemical Substances.
U.S. EPA TSCA: The product contains a substance that is not listed on the TSCA inventory.
CANADIAN CEPA DSL: This product contains one or more components which have not been determined to be on the DSL. If you are the importer of this product into Canada, contact H.B. Fuller for chemical tracking and notification information.
EUROPEAN REACH: As a result of the introduction of REACH into Europe, this product cannot be imported into Europe unless the REACH requirements are met.

If you need more information about the inventory status of this product call 1+ 651-236-5858.

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP):

Exempt

SECTION 16: OTHER INFORMATION

SDS Date of Issue: 12-12-2016
Replaces: None
Changes made to previous issue: Conversion to GHS format

ACRONYMS and DEFINITIONS:

ACGIH American Conference of Governmental Industrial Hygienists
ADG Code Australian Code for the Transport of Dangerous Goods by Road and Rail
AICS Australian Inventory of Chemical Substances
BEI Biological Exposure Index
CAS Number Chemical Abstracts Service Registry Number
CNS Central nervous system
DG Dangerous Goods
Hazchem Code An emergency action code of numbers and letters, which gives information to emergency services.
IARC International Agency for Research on Cancer
IATA Code International Air Transport Association Code
IMDG Code International Maritime Dangerous Goods Code
N.O.S. Not otherwise specified
NOHSC National Health and Safety Commission
PPE Personal protection equipment
SUSMP Standard for the Uniform Scheduling of Medicines and Poisons
UN Number United Nations Number

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