SAFETY DATA SHEET

REVISION DATE: 11-08-2016  SUPERSEDES: None

SECTION 1: IDENTIFICATION OF THE PRODUCT AND SUPPLIER

PRODUCT INFORMATION
PRODUCT: SWIFT TAK 3532A
PRODUCT DESCRIPTION: Water based adhesive
INTENDED USE: Industrial adhesive
PRODUCT IDENTIFIER: 838204PM

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:

- Exclamation mark
- Warning
- Skin Sensitisation Category 1; Skin Corrosion/Irritation Category 2; Serious Eye Damage/Eye Irritation Category 2A
- Causes skin irritation.
- May cause an allergic skin reaction.
- Causes serious eye irritation.

GHS Precautions:

First Aid Measures: IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

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

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS #</th>
<th>PERCENT</th>
<th>Classification</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resin acids &amp; rosin acids, sodium salts</td>
<td>61790-51-0</td>
<td>1 - 5</td>
<td>Aquatic Chronic 2; H411</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Eye Irrit. 2; H319</td>
<td></td>
</tr>
</tbody>
</table>
SAFETY DATA SHEET

<table>
<thead>
<tr>
<th>Tall oil rosin</th>
<th>8052-10-6</th>
<th>1 - 5</th>
<th>Skin Sens. 1; H317</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hydroxide</td>
<td>1310-73-2</td>
<td>0.1 - 1</td>
<td>Acute Tox. 4; H312</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Skin Corr. 1A; H314</td>
</tr>
<tr>
<td>1-Dodecanethiol</td>
<td>112-55-0</td>
<td>0.1 - 1</td>
<td>Aquatic Chronic 1; H410</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Eye Dam. 1; H318</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Skin Corr. 1C; H314</td>
</tr>
<tr>
<td>Ingredients determined to be not hazardous</td>
<td>96</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SECTION 4: FIRST AID MEASURES

IF IN EYES: Use an eye wash to remove a chemical from your eye regardless of the level of hazard. Flush the affected eye for at least twenty minutes. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Seek medical advice after flushing.

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. Call a physician if symptoms persist.

IF SWALLOWED: Do not induce vomiting. Seek medical attention if symptoms develop. Provide medical care provider with this MSDS. Induced vomiting may lead to aspiration of the material into the lungs potentially causing chemical pneumonitis that may be fatal.

SECTION 5: FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Use water spray, foam, dry chemical or carbon dioxide.

UNUSUAL FIRE AND EXPLOSION HAZARDS: There is a possibility of pressure buildup in closed containers when heated. Water spray may be used to cool the containers. Material will burn in a fire.

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 Aldehydes Nitrogen containing gases

SECTION 6: ACCIDENTAL RELEASE MEASURES

SPECIAL PROTECTION: No health affects expected from the clean-up of this material if contact can be avoided. Follow personal protective equipment recommendations found in Section 8 of this SDS.

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.

SECTION 7: HANDLING AND STORAGE

Handling: Avoid unnecessary exposure. This product contains limited amounts of residual monomer. Under normal handling and use conditions the residual monomer should not present a hazard. In storage the monomer will migrate from the emulsion and establish an equilibrium between the headspace in the storage container and the liquid emulsion. Levels in excess of acceptable exposures can accumulate in non-vented headspaces above the emulsion. All procedures appropriate for a confined space entry should be
completed prior to performing any work in a bulk storage tank.

Storage: Store in a cool, dry place. Protect from freezing.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Note</th>
<th>AUSTRALIAN EXPOSURE LIMITS</th>
<th>ACGIH EXPOSURE LIMITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>No data available.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Biological Limit Values (ACGIH)

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH Biological Exposure Index (BEI)</th>
</tr>
</thead>
<tbody>
<tr>
<td>No data available.</td>
<td></td>
</tr>
</tbody>
</table>

ENGINEERING CONTROL METHODS:

VENTILATION: General room ventilation might be required under normal conditions of use.

EYE PROTECTION: Wear safety glasses when handling this product.

SKIN PROTECTION: Avoid skin contact by wearing chemically resistant gloves.

GLOVES: Nitrile

RESPIRATORY PROTECTION: No respiratory protection required under normal conditions of use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid
COLOR: Off-white
ODOR: Characteristic
ODOR THRESHOLD: Not established
pH: 8.0
FREEZING/MELTING POINT (deg. C): Not established
BOILING POINT (deg. C): Not established
FLASH POINT: Non flammable
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.): 8.76
SPECIFIC GRAVITY: 1.050
SOLUBILITY: Not established
OCTANOL/WATER COEFFICIENT: Not established
AUTOIGNITION TEMPERATURE: Not established
DECOMPOSITION TEMPERATURE: Not established
VISCOSITY: No data available.
SOLIDS (% by weight): 55.0
SECTION 10: STABILITY AND REACTIVITY

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

SECTION 11: TOXICOLOGICAL INFORMATION

Component Toxicity / Toxicology Data:

<table>
<thead>
<tr>
<th>COMPONENT NAME</th>
<th>LD50/LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>No data available.</td>
<td></td>
</tr>
</tbody>
</table>

This product is a mixture. Unless noted, the information below is based on components.
Skin corrosion / irritation: Can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.
Serious eye damage / irritation: Can cause moderate irritation, tearing and reddening.
Respiratory / skin sensitization: May cause an allergic skin reaction.
Germ cell mutagenicity: No data available.
Carcinogenicity: No data available.
Reproductive toxicity: No data available.
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: No organs known to be damaged from exposure to this product.
Aspiration hazard: Not an aspiration hazard.

Medical Conditions Aggravated by Exposure: No medical conditions affected by exposure.

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:

<table>
<thead>
<tr>
<th>Component:</th>
<th>Ecotoxicity values:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resin acids &amp; rosin acids, sodium salts</td>
<td>Acute Toxicity (Fish): 96 Hr LC50 Brachydanio rerio: 5.0 - 10.0 mg/L [static]</td>
</tr>
<tr>
<td></td>
<td>Acute Toxicity (Daphnia): 48 Hr EC50 Daphnia magna: 76 mg/L</td>
</tr>
<tr>
<td></td>
<td>Acute Toxicity (Algae): 72 Hr EC50 Pseudokirchneriella subcapitata: 18.0 - 20.0 mg/L</td>
</tr>
</tbody>
</table>

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: NOT REGULATED
IATA: NOT REGULATED
HazChem Code: Not applicable

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): Not a scheduled poison

SECTION 16: OTHER INFORMATION
SDS Date of Issue: 08-11-2016
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

Prepared by: The Global Regulatory Department Phone: 1-651-236-5842

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