

SAFETY DATA SHEET

REVISION DATE: 11-11-2016

SUPERSEDES: None

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

PRODUCT: RAKOLL 3446
PRODUCT DESCRIPTION: Inorganic acid solution
INTENDED USE: Industrial adhesive
PRODUCT IDENTIFIER: 816507PM

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
Emergency Tel NZ: 0800 734 607 (or IDD +64 473 4607)

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

GHS Symbol name(s): Corrosion
GHS Signal Word: Danger
GHS Classification: Skin Corrosion/Irritation Category 1A; Serious Eye Damage/Eye Irritation Category 1
GHS Hazard Phrases: Causes severe skin burns and eye damage.
GHS Precautions:
Safety Precautions: Do not breathe dust/fume/gas/mist/vapours/spray.
Wash thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.
First Aid Measures: IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair):
Remove/Take off immediately all contaminated clothing. Rinse skin with
water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position
comfortable for breathing. IF IN EYES: Rinse cautiously with water for several
minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER or doctor/physician. Wash contaminated
clothing before reuse.
Storage: Store locked up.
Disposal: Dispose of contents/container in accordance with local/regional/national/international
regulation for hazardous wastes.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS #	PERCENT	Classification	Note
Aluminum chloride, hexahydrate	7784-13-6	50 - 70	Acute Tox. 4; H302 Skin Corr. 1B; H314	

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Ingredients determined to be not hazardous		50		
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SECTION 4: FIRST AID MEASURES

IF IN EYES: Immediately flush eyes with plenty of water for at least 20 minutes retracting eyelids often. This corrosive material can cause immediate and permanent eye damage. 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 under a drench shower. Remove contaminated clothing, launder immediately, and discard contaminated leather goods. Get medical attention immediately.

IF INHALED: Remove to fresh air. Restore breathing, if necessary. Keep warm and quiet. Get medical attention immediately.

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.
SPECIAL FIRE FIGHTING INSTRUCTIONS:	Persons exposed to products of combustion should wear self-contained breathing apparatus and full protective equipment.
HAZARDOUS COMBUSTION PRODUCTS:	Chlorine containing gases

SECTION 6: ACCIDENTAL RELEASE MEASURES

SPECIAL PROTECTION:	Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section 8 of this MSDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, and the area in which the spill occurred. Never exceed any occupational exposure limits.
METHODS FOR CLEAN-UP:	Contain spill, dilute if necessary and neutralise. Remove with inert absorbent. Dike if necessary, contain spill with inert absorbent and transfer to containers for disposal. Keep spilled product out of sewers, watersheds, or water systems.

SECTION 7: HANDLING AND STORAGE

Handling:	Avoid contacting and avoid breathing the material. Use only in a well ventilated area.
Storage:	Store in a cool, dry place. This product is a Class 8 corrosive substance and must be stored according to the provisions of AS 3780. Protect from freezing.

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION
EXPOSURE LIMITS:

Chemical Name	Note	AUSTRALIAN EXPOSURE LIMITS	ACGIH EXPOSURE LIMITS
No data available.			

Biological Limit Values (ACGIH)

Chemical Name	ACGIH Biological Exposure Index (BEI)
No data available.	

ENGINEERING CONTROL METHODS:

VENTILATION:	Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure.
EYE PROTECTION:	Wear chemical splash goggles when handling this product. Additionally, wear a face shield when the possibility of splashing of liquid exists. Do not wear contact lenses. Have an eye wash station available.
SKIN PROTECTION:	Prevent contact with this product. Wear chemically resistant gloves, long sleeved shirt, an apron, and other protective equipment depending on conditions of use.
GLOVES:	Butyl rubber
RESPIRATORY PROTECTION:	Respiratory protection will be required when ventilation or other engineering controls can not reduce the exposure to acceptable levels. NIOSH approved air purifying respirator with acid gas cartridge and dust/mist filter if product is sprayed.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Liquid
COLOR:	Colourless
ODOR:	Acid
ODOR THRESHOLD:	Not established
pH:	1.0
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.):	12.43
SPECIFIC GRAVITY:	1.490
SOLUBILITY:	Not established
OCTANOL/WATER COEFFICIENT:	Not established
AUTOIGNITION TEMPERATURE:	Not established
DECOMPOSITION TEMPERATURE:	Not established

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VISCOSITY: No data available.
SOLIDS (% by weight): 50.0

SECTION 10: STABILITY AND REACTIVITY

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

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

COMPONENT NAME	LD50/LC50
Aluminum chloride, hexahydrate	Oral LD50 Mouse 1,990 mg/kg

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

Skin corrosion / irritation: Corrosive to skin tissue. Can cause chemical burns.

Serious eye damage / irritation: Can cause severe irritation. Eye contact may result in corneal injury. Symptoms may include discomfort or pain, excessive blinking and tear production, with marked redness and swelling of the conjunctiva. Temporary vision impairment (cloudy or blurred vision) is possible.

Respiratory / skin sensitization: No data available.

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:

Component:	Ecotoxicity values:
No data available.	Acute Toxicity (Fish): Acute Toxicity (Daphnia): Acute Toxicity (Algae):

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

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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:	ALUMINUM CHLORIDE, SOLUTION, 8, UN2581, PGIII
IATA:	ALUMINUM CHLORIDE, SOLUTION, 8, UN2581, PGIII
HazChem Code:	2X

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:	11-11-2016
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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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