HALLIBURTON

SAFETY DATA SHEET

HALLIBURTON WELD A RESIN

Revision Date: 16-May-2013 Revision Number: 16

1. Product and Company Identification

Product Name

Product Trade Name: HALLIBURTON WELD A RESIN

Other Names

Synonyms: None Product Code: HM000844

Recommended Use

Recommended Use Resin

Uses Advised Against No information available

Company Name, Address and Contact Details

Manufacturer/Supplier Halliburton New Zealand

1 Paraite Rd.

Bell Block, New Plymouth

New Zealand Registration No.: 824207

E-Mail address: fdunexchem@halliburton.com

Emergency Telephone Number +64-6-7559274

New Zealand National Poisons

Centre

0800 764 766 (24 hours)

2. Hazard(s) Identification

Statement of Hazardous Nature

Classified as hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulation 2001; Not Classified as dangerous good according to NZS 5433:2012, UN, IMDG or IATA

Classification

6.3B Mildly irritating to the skin

6.4A Irritating to the eye

6.5B Contact sensitisers

6.6B Human mutagens

6.7A Known or presumed human carcinogens

6.8B Human reproductive or developmental toxicants

6.9B Harmful to human target organs or systems

9.1B Ecotoxic in the aquatic environment

Hazard and Precautionary Statements

2. Hazard(s) Identification

Hazard Pictograms







Signal Word

Danger

Hazard Statements

H350 - May cause cancer by inhalation

H373 - May cause damage to organs through prolonged or repeated exposure if inhaled

H341 - Suspected of causing genetic defects

H316 - Causes mild skin irritation

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H411 - Toxic to aquatic life with long lasting effects

Precautionary Statements

Prevention P102 - Keep out of reach of children

P103 - Read label before use

P104 - Read Safety Data Sheet before use. P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P264 - Wash face, hands and any exposed skin thoroughly after handling

P272 - Contaminated work clothing should not be allowed out of the workplace

P280 - Wear eye protection/face protection

P281 - Use personal protective equipment as required

Response P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing P337 + P313 - If eye irritation persists: Get medical advice/attention P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention

P363 - Wash contaminated clothing before reuse

P308 + P313 - IF exposed or concerned: Get medical advice/attention

P314 - Get medical attention/advice if you feel unwell

P391 - Collect spillage

Storage P405 - Store locked up

Disposal P501 - Dispose of contents/container to an approved waste disposal plant

Contains

Substances	CAS Number	Substance HSNO Classification
Aluminum	7429-90-5	4.11B
		6.9B
		9.1D
Bisphenol A / Epichlorohydrin resin	25068-38-6	6.3B
		6.4A
		6.5B (Contact)
		6.9B (Dermal)
		9.1B (Algae, Crustacean, Fish)
Calcium carbonate	471-34-1	6.4A

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Other Hazards

None known

3. Composition and Information on Ingredients			
Substances	CAC Number	DEDCENT	

Substances	CAS Number	PERCENT
Aluminum	7429-90-5	30 - 60%
Bisphenol A / Epichlorohydrin resin	25068-38-6	30 - 60%
Calcium carbonate	471-34-1	10 - 30%
Butyl glycidyl ether	2426-08-6	1 - 5%
Crystalline silica,	14808-60-7	0 - 1%
quartz		

4. First-Aid Measures

Requirements for First Aid or Medical Care

Inhalation If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-

mouth. If breathing is difficult give oxygen. Get medical attention.

Eyes In case of contact, or suspected contact, immediately flush eyes with plenty of water for at

least 15 minutes and get medical attention immediately after flushing.

Skin Wash with soap and water. Get medical attention if irritation persists.

Ingestion Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical

attention. Never give anything by mouth to an unconscious person.

Workplace Facilities Required

None

Relation to Health Effect

Most Important Symptoms/Effects

May cause eye and skin irritation. May cause allergic skin reaction. Breathing crystalline silica can cause lung disease, including silicosis and lung cancer. Crystalline silica has also been associated with scleroderma and kidney disease.

Medical Attention and Special Treatment

Notes to Physician

Treat symptomatically

5. Fire-Fighting Measures

Type of Hazard

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5. Fire-Fighting Measures

Flammability Hazard

Non-flammable

Extinguishing media

Suitable Extinguishing Media

Carbon dioxide, dry chemical, foam.

Extinguishing media which must not be used for safety reasons

Water must not be used with open containers.

HAZCHEM Code

Hazchem Code: None Allocated

Special Protective Equipment and Precautions for Fire Fighters

Special Protective Equipment for Fire-Fighters

Full protective clothing and approved self-contained breathing apparatus required for fire fighting personnel.

Special Exposure Hazards

Decomposition in fire may produce toxic gases. Contact with strong oxidizers may produce explosive mixtures. Hydrogen gas may be released on contact with moisture, acids or alkalis.

6. Spillage, Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Use appropriate protective equipment. Avoid creating and breathing dust.

See Section 12 for additional information

Environmental precautions

Prevent from entering sewers, waterways, or low areas.

Methods and material for containment and cleaning up

Collect using dustless method and hold for appropriate disposal. Consider possible toxic or fire hazards associated with contaminating substances and use appropriate methods for collection, storage and disposal.

Reference to other sections

See Section 12 for additional information.

7. Handling and Storage

Precautions for Safe Handling

Handling Precautions

Avoid contact with eyes, skin, or clothing. Wash hands after use. Launder contaminated clothing before reuse. This product contains quartz, cristobalite, and/or tridymite which may become airborne without a visible cloud. Avoid breathing dust. Avoid creating dusty conditions. Use only with adequate ventilation to keep exposure below recommended exposure limits. Wear a NIOSH certified, European Standard En 149, or equivalent respirator when using this product. Material is slippery when wet.

Handling Practices

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice

Approved Handlers

If more than 10 kg (Class 6) is present, then an approved handler must be present when the substance is being handled and when not in use, the substance must be locked away.

Conditions for safe storage, including any incompatibilities

Store away from acids. Store away from alkalis. Store away from oxidizers. Store in a cool well ventilated area. Keep container closed when not in use. Store locked up. Use good housekeeping in storage and work areas to prevent accumulation of dust. Close container when not in use.

7. Handling and Storage

Store Site Requirements

No special controls required

Packaging

No special packaging required

8. Exposure Controls and Personal Protection

Workplace Exposure Standards

Substances	CAS Number	New Zealand WES	ACGIH TLV-TWA
Aluminum	7429-90-5	TWA: 10 mg/m ³	TWA: 1 mg/m ³
Bisphenol A /	25068-38-6	Not applicable	Not applicable
Epichlorohydrin resin			
Calcium carbonate	471-34-1	TWA: 10 mg/m ³	10 mg/m ³
Butyl glycidyl ether	2426-08-6	TWA: 25 ppm TWA:	TWA: 3 ppm
		133 mg/m ³	
Crystalline silica, quartz	14808-60-7	TWA: 0.2 mg/m ³	TWA: 0.025 mg/m ³

Engineering Controls

Use approved industrial ventilation and local exhaust as required to maintain exposures **Engineering Controls**

below applicable exposure limits.

Personal Protective Equipment (PPE)

Respiratory Protection Wear a NIOSH certified, European Standard EN 149 (FFP2/FFP3), or equivalent respirator

when using this product.

Hand Protection Impervious rubber gloves. Nitrile gloves. Neoprene gloves. Butyl rubber gloves.

Skin Protection Wear clothing appropriate for the work environment. Dusty clothing should be laundered

before reuse. Use precautionary measures to avoid creating dust when removing or

laundering clothing.

Eye Protection Chemical goggles; also wear a face shield if splashing hazard exists. **Other Precautions** Eyewash fountains and safety showers must be easily accessible.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Physical State:

Odor: Aromatic hydrocarbon Odor Threshold: No information available

Property Values

Remarks/ Method

pH: No data available Melting Point/Range No data available Freezing Point/Range (C): No data available **Boiling Point/Range** No data available

Flash Point 93°C

PMCC

No data available **Evaporation rate**

Vapor Pressure

Vapor Density No data available

Specific Gravity 1.81

Insoluble in water **Water Solubility** No data available Solubility in other solvents Partition coefficient: n-octanol/water No data available **Autoignition Temperature** No data available **Decomposition Temperature** No data available

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9. Physical and Chemical Properties

No data available Viscosity **Explosive Properties** No information available **Oxidizing Properties** No information available

Other information

VOC Content (%) No data available

10. Stability and Reactivity

Chemical Stability

Stable

Conditions to Avoid

None anticipated

Incompatible Materials

Strong oxidizers. Strong acids. Strong alkalis.

Hazardous Decomposition Products

Hydrogen chloride. Aldehydes. Aluminum fumes. Butyl glycidyl ether. Carbon monoxide and carbon dioxide. Amorphous silica may transform at elevated temperatures to tridymite (870 C) or cristobalite (1470 C).

Hazardous Reactions

Hazardous Polymerization: Will Not Occur

11. Toxicological Information

Health Effect from Likely Routes of Exposure

Acute Toxicity

Inhalation May cause central nervous system depression including headache, dizziness, drowsiness,

incoordination, slowed reaction time, slurred speech, giddiness and unconsciousness. Inhaled crystalline silica in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (IARC, Group 1). There is sufficient evidence in experimental

animals for the carcinogenicity of tridymite (IARC, Group 2A).

Breathing silica dust may cause irritation of the nose, throat, and respiratory passages. Breathing silica dust may not cause noticeable injury or illness even though permanent lung damage may be occurring. Inhalation of dust may also have serious chronic health effects

(See "Chronic Effects/Carcinogenicity" subsection below).

Eye Contact May cause eye irritation. **Skin Contact**

May cause skin irritation. May cause an allergic skin reaction.

Ingestion Irritation of the mouth, throat, and stomach.

11. Toxicological Information

Chronic Effects/Carcinogenicity

Silicosis: Excessive inhalation of respirable crystalline silica dust may cause a progressive, disabling, and sometimes-fatal lung disease called silicosis. Symptoms include cough, shortness of breath, wheezing, non-specific chest illness, and reduced pulmonary function. This disease is exacerbated by smoking. Individuals with silicosis are predisposed to develop tuberculosis.

Cancer Status: The International Agency for Research on Cancer (IARC) has determined that crystalline silica inhaled in the form of quartz or cristobalite from occupational sources can cause lung cancer in humans (Group 1 - carcinogenic to humans) and has determined that there is sufficient evidence in experimental animals for the carcinogenicity of tridymite (Group 2A - possible carcinogen to humans). Refer to IARC Monograph 68, Silica, Some Silicates and Organic Fibres (June 1997) in conjunction with the use of these minerals. The National Toxicology Program classifies respirable crystalline silica as "Known to be a human carcinogen". Refer to the 9th Report on Carcinogens (2000). The American Conference of Governmental Industrial Hygienists (ACGIH) classifies crystalline silica, quartz, as a suspected human carcinogen (A2).

There is some evidence that breathing respirable crystalline silica or the disease silicosis is associated with an increased incidence of significant disease endpoints such as scleroderma (an immune system disorder manifested by scarring of the lungs, skin, and other internal organs) and kidney disease.

Toxicity Data

Substances	LD50 Oral	LD50 Dermal	LC50 Inhalation
Aluminum	No data available	No data available	No data available
Bisphenol A / Epichlorohydrin 11400 mg/kg (Rat)		No data available	No data available
resin			
Calcium carbonate	6450 mg/kg (Rat)	No data available	No data available
Butyl glycidyl ether 1660 mg/kg (Rat) 2000 mg/kg (Rat)		2520 μL/kg (Rabbit)2150 mg/kg(Rat)	LC50: 1030 ppm (Rat) 8 h LC50" > 670 ppm (Rat) 8 h
Crystalline silica, quartz	500 mg/kg (Rat)	No data available	No data available

12. Ecological Information

Toxicity Ecotoxicity Effects

Product Ecotoxicity Data

No data available

Substance Ecotoxicity Data

Substance Ecotoxicity Data					
Substances	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water	
				Flea)	
Aluminum	EC50: 6919.83 mg/L	LC50: >10000 mg/L	No information available	LC50: 190 mg/L (Arcatia	
	(Skeletonema costatum)	(Scophthalmus maximus)		tonsa) `	
Bisphenol A /	No information available	No information available	No information available	No information available	
Epichlorohydrin resin					
Calcium carbonate	No information available	No information available	No information available	No information available	
Butyl glycidyl ether	No information available	No information available	No information available	No information available	
Crystalline silica, quartz	No information available	No information available	No information available	No information available	

Persistence and degradability

Not readily biodegradable

Bioaccumulative potential

No information available

Mobility in soil

No information available

Ecotoxicity Hazard Statements

Toxic to aquatic life

Other adverse effects

Endocrine Disruptor Information

This product does not contain any known or suspected endocrine disruptors

13. Disposal Considerations

Waste treatment methods

Disposal MethodDisposal should be made in accordance with federal, state, and local regulations.

Incineration recommended in approved incinerator according to federal, state, and local

regulations. Substance should NOT be deposited into a sewage facility.

Contaminated Packaging Follow all applicable national or local regulations. Contaminated packaging may be disposed

of by: rendering packaging incapable of containing any substance, or treating packaging to remove residual contents, or treating packaging to make sure the residual contents are no

longer hazardous, or by disposing of packaging into commercial waste collection.

14. Transport Information

IMDG/IMO

UN Number: Not restricted. UN Proper Shipping Name: Not restricted Not restricted Not applicable

NZ 5433.1999

UN Number: Not restricted.
UN Proper Shipping Name: Not restricted
Transport Hazard Class(es): Not applicable

IATA/ICAO

UN Number: Not restricted.
UN Proper Shipping Name: Not restricted
Transport Hazard Class(es): Not applicable

Special Precautions for User

None

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

15. Regulatory Information

New Zealand Inventory of Chemicals All components listed on inventory or are exempt.

HSNO Approval Number HSR002616

Group Name Metal Industry Product (Toxic [6.7], HSR002616)

HSNO Controls Refer to the NZ EPA website for more information: http://www.epa.govt.nz

Approved Handlers If more than 10 kg (Class 6) is present, then an approved handler must be present when the

substance is being handled and when not in use, the substance must be locked away.

15. Regulatory Information

Poisons Schedule: S5

16. Other Information

The following sections have been revised since the last issue of this SDS

Not applicable

Additional Information For additional information on the use of this product, contact your local Halliburton

representative.

For questions about the Safety Data Sheet for this or other Halliburton products, contact

Chemical Compliance at 1-580-251-4335.

Key literature references and sources for data

www.ChemADVISOR.com/

NZ CCID

Revision Date: 16-May-2013 Revision Note Not applicable

Disclaimer Statement

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End of Safety Data Sheet
