

SDS G2G-HEATPUMP-GB  
Issue 1, Version 2 Revised 24 August 2017

Total Pages: 5

## G2G-HEATPUMP

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

#### 1.1 Product identifier

G2G-HEATPUMP

#### 1.2 Relevant identified uses of the mixture and of the company

HEAT PUMP coil cleaner

#### 1.3 Details of the supplier of the safety data sheet

**Manufactured by (USA):** DiversiTech Corporation  
6650 Sugarloaf Parkway  
Duluth, GA 30097

**Manufactured for (UK):** Pump House  
Glaisdale Drive East  
Nottingham  
NG8 4LY  
United Kingdom  
**Tel:** +44 1159005858  
**Fax:** +44 1159294468  
**Email:** www.pumph.co.uk.com

#### 1.4 Emergency telephone number

**Emergency tel:** 001+1813 248 0585, 24 Hours, 7 Emergency Days, Chem-Tel, Inc.

### SECTION 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the mixture

##### GHS Classification:

Skin Irritation Category 3  
Eye Irritation Category 2B

#### 2.2 Label Elements:

**Signal Word** Warning!

##### Hazard Statement(s)

H316 Causes mild skin irritation.  
H320 Causes eye irritation.

##### Precautionary statement(s)

P102 Keep out of reach of children.  
P103 Read label before use.  
P264 Wash hands thoroughly after handling.  
P305 + 351 + 338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337 + 313 If eye irritation persists: Get medical attention.  
P332 + 313 If skin irritation occurs: Get medical attention.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

INGREDIENT	CAS No.	EINECS No.	% Or Range	GHS Classification
Sodium Silicate	1344-09-8	215-687-4	0.1-0.5	H314: Causes severe eye damage Category 1B H335: May cause respiratory irrit. Category 3

### SECTION 4. FIRST AID MEASURES

#### 4.1. Description of first aid measures

**Skin contact** - Wash hands and affected areas with soap and water. If skin irritation occurs: Get medical attention.

**Eye contact** - Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for 15 minutes. If eye irritation persists: Get medical attention.

**Ingestion** - Wash out mouth with water. Do not induce vomiting. Give 1 cup of water to drink every 10 minutes. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. Transfer to hospital as soon as possible.

**Inhalation** - Remove casualty from exposure ensuring one's own safety whilst doing so. If unconscious and breathing is OK, place in the recovery position. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. If person stops breathing give artificial respiration. Transfer to hospital as soon as possible.

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### SECTION 4. FIRST AID MEASURES (cont.)

#### 4.2 Most important symptoms and effects, both acute and delayed

Concentrated product is corrosive to the eyes, skin, gastrointestinal tract, and respiratory system.

#### 4.3 Indication of any immediate attention and special treatment needed

Immediately flush eyes if contact is made. If inhaled or ingested seek medical advice immediately.

### SECTION 5. FIREFIGHTING MEASURES

#### 5.1 Extinguishing media

Suitable extinguishing media for the surrounding fire should be used.

#### 5.2 Special hazards arising from the substance or mixture

Will not explode. Irritating and toxic gases or fumes may be released during a fire.

#### 5.3 Advice for fire-fighters

Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes. Cool exposed containers with a water spray to prevent rupturing.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Keep unnecessary and unprotected people away from area of spill. Cleanup personnel must be equipped with personal protective gear. Remove contaminated clothing immediately.

#### 6.2 Environmental precautions

Do not discharge into drains or rivers. Contain and recover liquid when possible.

#### 6.3 Methods and material for containment and cleaning up

Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.

#### 6.4 Reference to other sections

Please refer to Section 8 for details on protective wear.

### SECTION 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Wash hands thoroughly after handling.

#### 7.2 Condition for safe storage, including any incompatibilities

Keep container tightly closed. Protect from physical damage. Store in a cool dry ventilated area away from sources of extreme heat, moisture and incompatibilities.

#### 7.3 Specific end use(s)

No further details

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

Not relevant.

#### 8.2 Exposure controls

Ensure there is sufficient ventilation of the area. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.

**Eye/face protection:** Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities or a source of running water in the work area.

#### **Skin protection:**

**Hand protection:** Wear Latex, neoprene or nitrile.

**Other:** Wear protective rubber, vinyl or other waterproof clothing, including long sleeves and gloves, to prevent skin contact. Thoroughly wash clothing before reuse.

**Respiratory protection:** None required for normal use.

**Thermal hazards:** Not relevant.

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### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties

Appearance:	Clear to pale liquid
Odor:	Mild, not unpleasant
Odor Threshold:	Not available
pH:	11-11.5
Melting Point/freezing point:	0 °C
Initial boiling point and boiling range:	100 °C
Flash Point:	Not available
Evaporation Rate (Water = 1):	~1
Flammable Limits:	Not available
Vapor pressure:	~ 2.3kpa at 20°C
Vapor Density:	~ 0.63, air=1
VOC:	< 40 grams/liter
Solubility:	Soluble
Partition Coefficient: n-octanol/water:	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity:	~ 1 to 3 cps at 25°C (77°F)
Explosive properties:	No data available
Oxidising properties:	No data available
Specific Gravity:	1.004 @25°C
Molecular Weight:	Not available

#### 9.2 Other information

No further details

### SECTION 10. STABILITY AND REACTIVITY

#### 10.1 Reactivity

Stable under normal conditions.

#### 10.2 Chemical stability

Stable under normal conditions.

#### 10.3 Possibility of hazardous reactions

May evolve carbon monoxide, carbon dioxide, hydrogen chloride and other unidentified fragments if this product is involved in a fire.

#### 10.4 Conditions to avoid

Heat, freezing, incompatibles.

#### 10.5 Incompatible materials

Strong oxidisers. Strong acids.

#### 10.6 Hazardous decomposition products

May evolve carbon monoxide, carbon dioxide, hydrogen chloride and other unidentified fragments if this product is involved in a fire.

### SECTION 11. TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects

##### Potential health effects:

11.1.1 Acute Toxicity: No data available.

11.1.2 Irritation: Prolonged skin exposure may produce mild temporary irritation. If in contact with eye, there may be temporary irritation and pain.

11.1.3 Corrosive: not expected to be corrosive.

11.1.4 Sensitisation: Not expected to be a sensitizer.

11.1.5 Repeated dose toxicity: Not expected to be of concerns.

11.1.6 Carcinogenicity: Not expected to be carcinogenic.

11.1.7 Mutagenicity: Not expected to be mutagenic.

11.1.8 Toxicity for reproduction: Not expected to be toxic to reproduction.

11.1.9 Route of exposure: Skin contact.

11.1.10 Symptoms related to the physical, chemical and toxicological characteristics: Eye and skin irritation. Swallowing can cause gastrointestinal irritation, nausea, vomiting and diarrhea. Abusive or excessive inhalation of vapours may cause irritation to the upper respiratory tract, dizziness, nausea and other nervous system effects.

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### SECTION 12. ECOLOGICAL INFORMATION

#### 12.1 Toxicity

No data available.

#### 12.2 Persistence and degradability

Biodegradable

#### 12.3 Bioaccumulative potential

No bioaccumulative potential

#### 12.4 Mobility in soil

Readily absorbed into soil.

#### 12.6 Other adverse effects

No further details

### SECTION 13. DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

**Disposal operations** - Dispose of this product in accordance with all applicable local, state and federal regulations.

**Disposal of packaging** - Triple rinse and dispose of empty containers in an environmentally responsible manner. Reclaim or recycle if possible.

### SECTION 14. TRANSPORTATION INFORMATION

#### 14.1 UN number

None

#### 14.2 UN proper shipping name

Cleaning Compound, Liquid, NOI

#### 14.3 Transport hazard class(es)

None

#### 14.4 Packing group

None

#### 14.5 Environmental hazards

Not Environmentally Hazardous Substance or Marine Pollutant

#### 14.6 Special precautions for user

None

#### 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable to packaged goods

#### MODE-SPECIFIC INFORMATION:

ROAD/RAIL (ADR/RID/CDG)	None
SEA (IMDG)	Not Marine Pollutant
AIR (ICAO/IATA)	None

### SECTION 15. REGULATORY INFORMATION

#### 15.1 Chemical safety assessment

A chemical safety assessment has not been conducted.

**Note:** The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

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### SECTION 16. OTHER INFORMATION

#### Other information

This safety data sheet is prepared in accordance with Regulation (EC) No 453/2010.

**Revision Summary:** All Sections: New GHS Format.

#### Abbreviations:

UN Model Regulations means the Model Regulations annexed to the most recently revised edition of the Recommendations on the Transport of Dangerous Goods published by the United Nations.

IMDG Code means the International Maritime Dangerous Goods code, as amended.

ADR means the European Agreement concerning the International Carriage of Dangerous Goods by Road, as amended.

RID means the Regulations concerning the International Carriage of Dangerous Goods by Rail, as amended.

ADN means the European Agreement concerning the International Transport of Dangerous Goods by Inland Waterways, as amended.

#### Sources of Key Data:

UK Regulatory References: The Control of Substances Hazardous to Health Regulations 1988. Chemicals (Hazard Information & Packaging) Regulations.

EU Directives: Dangerous Substance Directive 67/548/EEC. Dangerous Preparations Directive 1999/45/EC. System of specific information relating to Dangerous Preparations. 2001/58/EC.

Statutory Instruments: Chemicals (Hazard Information and Packaging) Regulations. Control of Substances Hazardous to Health.

Approved Code of Practice: Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply. British

Guidance Notes: Workplace Exposure Limits EH40. CHIP for everyone HSG(108).

National Regulations: The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002. No. 1689.

Classification and Labelling Guidance: Globally Harmonized System of Classification and Labelling of Chemicals (GHS), Annex 2

Precautionary Statement and Pictograms: Globally Harmonized System of Classification and Labelling of Chemicals (GHS), Annex 3

Guidance on the Preparation of Safety Data Sheets: Globally Harmonized System of Classification and Labelling of Chemicals (GHS), Annex 4

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