



## SAFETY DATA SHEET

### *Humes Plastiline™*

#### SECTION 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

<b>Product Name:</b>	Humes Plastiline™
<b>Other Names:</b>	None
<b>Recommended Use:</b>	Plastiline is a plasticised polyvinyl chloride (PVC) sheet material with keys designed to be embedded in concrete, used as a protective membrane for pipes, precast products and in situ concrete structures. It is manufactured as sheets and welding strips to the same formulation. Plastiline offers protection against attack by hydrogen sulphide and a range of acids, alkalis and salt solutions. Applications include use in sewers, treatment works, industrial waste lines and storage tanks.
<b>Applicable In:</b>	Australia
<b>Supplier:</b>	Holcim (Australia) Pty Ltd ABN 87 099 732 297
<b>Address:</b>	Level 8, Tower B, 799 Pacific Hwy, Chatswood, NSW 2067, Australia
<b>Telephone:</b>	+61 2 9412 6600 (8-00 am to 5-30 pm Mon to Fri only)
<b>Facsimile:</b>	+61 2 9412 6601
<b>Website:</b>	www.humes.com.au
<b>Emergency Phone Number:</b>	000 Fire Brigade and Police (available in Australia only)
<b>Poisons Information Centre:</b>	13 11 26 (available in Australia only)

This Safety Data Sheet (SDS) is issued by the Supplier in accordance with National standards and guidelines from Safe Work Australia (SWA – formerly ASCC/NOHSC). The information in it must not be altered, deleted or added to. The Supplier will not accept any responsibility for any changes made to its SDS by any other person or organization. The Supplier will issue a new SDS when there is a change in product specifications and/or Standards, Codes, Guidelines, or Regulations.

#### SECTION 2: HAZARD IDENTIFICATION

**STATEMENT OF HAZARDOUS NATURE:** In its delivered state, **Humes Plastiline™** is classified as **Non-Hazardous** according to the criteria of Safe Work Australia (SWA – formerly ASCC/NOHSC) Approved Criteria For Classifying Hazardous Substances [NOHSC:1008] 3rd Edition.

When heat-welding **Humes Plastiline™**, fumes are generated which are classified as **Hazardous**. Exposure controls, personal protective measures (Section 8 below) and health effects (Section 11 below) relate to fume generated when this product is heat-welded or thermally cut, which may require heating to approximately 200°C. The fumes consist of decomposition products (not the original chemical constituents); mostly the acid gases hydrogen chloride and hydrogen sulphide, as well as carbon monoxide.

**Humes Plastiline™** is classified as **Non-Dangerous** Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

#### GHS CLASSIFICATION:

**Not classified as Hazardous.** Because this product is classified as Non-Hazardous as delivered, a Safety Data Sheet (SDS) is not required under the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) or

Australian Regulations. Humes has elected to issue this SDS for the information of users, installers and the community. It has been formatted according to the GHS, as adopted by Safe Work Australia.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name:	Synonyms:	Proportion:	CAS Number:
Polyvinyl chloride resin (<5 ppm vinyl chloride monomer)	PVC	>60%	9002-86-2
Di iso nonyl phthalate plasticiser	DINP	>20%	---
Tri-basic lead sulphate		<5%	7446-14-2
Di-basic lead phosphite		<5%	1344-40-7
Calcium stearate		<1%	1592-23-0
Carbon black		<1%	1333-86-4

### SECTION 4: FIRST AID MEASURES

The following advice refers ONLY to exposures during heat-welding of Humes Plastiline™

<b>Eyes:</b>	Flush thoroughly with flowing water for 15 minutes. If irritation persists, seek medical attention.
<b>Skin:</b>	If burned by contact with hot material, cool as quickly as possible with water and seek medical attention for removal of adhering material and treatment of burn.
<b>Inhaled:</b>	Remove from further exposure. If respiratory irritation, dizziness or nausea occurs, seek immediate medical assistance. Give artificial respiration if breathing has stopped.
<b>Advice to Doctor:</b>	Treat symptomatically.

### SECTION 5: FIRE FIGHTING MEASURES

<b>Suitable extinguishing media:</b>	Use water or chemical foam.
<b>Specific hazards:</b>	Burning produces acid gases hydrogen chloride and hydrogen sulphide, carbon monoxide, carbon dioxide and possibly trace amounts of phosgene and phthalates.
<b>Special protective equipment and precautions for firefighters:</b>	Fire fighters should wear self-contained breathing apparatus as required by surrounding fire and fire conditions.
<b>HAZCHEM Code:</b>	None allocated.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

<b>Personal precautions, protective equipment and emergency procedures:</b>	No specific precautions required.
<b>Environmental precautions:</b>	No specific precautions required.
<b>Methods and materials for containment and cleaning up:</b>	Recover waste material, recycle, or dispose of in accordance with local authority guidelines.

### SECTION 7: HANDLING AND STORAGE

<b>Precautions for safe handling:</b>	Manual handling should be in accordance with Manual Handling Regulations and
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	Codes.
<b>Conditions for safe storage:</b>	There are no special storage requirements.
<b>Incompatibilities:</b>	None

## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Exposure Standards:</b>	<p><b>Workplace Exposure Standards for Airborne Contaminants, Safe Work Australia</b></p> <p>There is no specific Exposure Standard for the fume generated by heating or heat-welding Plastiline™ material, but the following Exposure Standards for some of the constituents of the fume are suggested to be applicable:</p> <p>Hydrogen chloride: Peak limitation - 5 ppm (7.5 mg/m<sup>3</sup>)</p> <p>Carbon monoxide: TWA - 30 ppm (34 mg/m<sup>3</sup>)</p>
<b>Notes on Exposure Standards:</b>	<p>All occupational exposures to atmospheric contaminants should be kept to as low as reasonably practicable and in all cases to below the Workplace Exposure Standard (WES).</p> <p>Peak limitation: a maximum or peak airborne concentration determined over the shortest analytically practicable period of time not exceeding 15 minutes.</p> <p>TWA (Time Weighted Average): the time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life. According to current knowledge this concentration should neither impair the health of, nor cause undue discomfort to, nearly all workers.</p>
<b>Biological Limit Values:</b>	No biological limit allocated.
<b>ENGINEERING CONTROLS</b>	
<input type="checkbox"/> <b>Ventilation:</b>	All work with Plastiline™ where the material is heated or melted should be carried out in such a way as to minimise exposure to fume. Mechanical ventilation (e.g. fans) should be provided to carry fume away from the breathing zone of the operator.
<b>PERSONAL PROTECTION</b>	
<input type="checkbox"/> <b>Skin Protection:</b>	None required unless heat-welding. Wear standard duty leather gloves (AS 2161), coverall clothing, and boots. Wash skin with mild soap and water after working with heated Plastiline™. Wash work clothes regularly.
<input type="checkbox"/> <b>Eye Protection:</b>	When heat-welding, non-fogging gas resistant goggles (AS/NZS 1336) should be worn if there is a risk of exposure to Plastiline™ fume.
<input type="checkbox"/> <b>Respiratory Protection:</b>	Avoid inhaling fume when heat-welding. Wear a respirator approved for acid gases and conforming with Australian Standards AS/NZS 1715 and AS/NZS 1716 when exposed to fume.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Black plastic sheets or strips
<b>Odour:</b>	None
<b>Odour threshold:</b>	Not applicable
<b>pH:</b>	Not applicable
<b>Melting point:</b>	Not determined
<b>Initial boiling point and range:</b>	Not determined

<b>Flash point:</b>	Not applicable
<b>Evaporation rate:</b>	Not applicable
<b>Flammability:</b>	Non-flammable under normal conditions of use; combustible
<b>Upper/lower flammability or explosive limits:</b>	Not applicable
<b>Vapour pressure:</b>	Not applicable
<b>Vapour density:</b>	Not applicable
<b>Specific gravity (Relative density):</b>	Approximately 1.4
<b>Solubility:</b>	Insoluble
<b>Partition coefficient (n-octanol/water):</b>	Not determined
<b>Viscosity:</b>	Not applicable
<b>Auto-ignition temperature:</b>	Not applicable
<b>Decomposition temperature:</b>	Not determined
<b>% Volatiles:</b>	0%
<b>Volatile Organic Compounds (VOC) Content:</b> (as specified by the Green Building Council of Australia)	0%

## SECTION 10: STABILITY AND REACTIVITY

<b>Chemical Stability:</b>	Stable under normal conditions
<b>Hazardous Reactions:</b>	None
<b>Conditions to avoid:</b>	None
<b>Incompatible Materials:</b>	None
<b>Hazardous Decomposition Products:</b>	Hydrogen chloride, hydrogen sulphide, carbon monoxide, carbon dioxide, and possibly trace amounts of phosgene and phthalates

## SECTION 11: TOXICOLOGICAL INFORMATION

Health Effects listed apply **ONLY** to effects from exposure when heat-welding Humes Plastiline™.

Health effects information is based on reported effects in use from overseas and Australian reports.

### Health Effects: Acute (short term)

<b>Swallowed:</b>	Unlikely under normal industrial conditions.
<b>Eyes:</b>	Fumes may be irritating to the eyes resulting in redness and watering.
<b>Skin:</b>	Contact with hot material may cause burns.
<b>Inhaled:</b>	Fumes are irritating to the nose, throat and respiratory tract. Inhalation may result in headaches and nausea.

### Health Effects: Chronic (long term)

<b>Inhaled:</b>	Repeated unprotected breathing of the fumes from heat-welding may lead to risk of asthma (reactive airways syndrome) or may exacerbate existing asthma conditions.
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## SECTION 12: ECOLOGICAL INFORMATION

<b>Eco-toxicity:</b>	Low ecotoxicity
<b>Persistence and Degradability:</b>	Material is persistent and is not bio-degradable.
<b>Bioaccumulative potential:</b>	There is no evidence to suggest bioaccumulation will occur.
<b>Mobility in soil:</b>	Material is insoluble and has a low mobility.

## SECTION 13: DISPOSAL CONSIDERATIONS

Recover waste material, recycle, or dispose of in accordance with local authority guidelines as normal trade waste.

## SECTION 14: TRANSPORT INFORMATION

<b>UN number:</b>	None allocated
<b>UN Proper Shipping Name:</b>	None allocated
<b>Class and Subsidiary Risk :</b>	None allocated
<b>Packaging Group:</b>	None allocated
<b>Marine Pollutant:</b>	No
<b>Special Precautions for User:</b>	None
<b>HAZCHEM code:</b>	None allocated

## SECTION 15: REGULATORY INFORMATION

<b>Poisons Schedule:</b>	Not scheduled
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## SECTION 16: OTHER INFORMATION

<b>Date of revision of this SDS:</b>	November 2016
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### Australian Standards References:

AS/NZS 1336	Recommended Practices for Occupational Eye Protection
AS/NZS 1715	Selection, Use and Maintenance of Respiratory Protective Devices
AS/NZS 1716	Respiratory Protective Devices
AS 2161	Industrial Safety Gloves and Mittens (excluding electrical and medical gloves)

### Other References:

NOHSC:1008 (2004)	Approved Criteria for Classifying Hazardous Substances
Model Code of Practice	Preparation of Safety Data Sheets for Hazardous Chemicals, December 2011, Safe Work Australia.
Model Code of Practice	Labelling of Workplace Hazardous Chemicals, December 2011, Safe Work Australia.
Model Code of Practice	Managing Risks Of Hazardous Chemicals In The Workplace, July 2012, Safe Work Australia.
WHS	Guidance on the Classification of Hazardous Chemicals under the WHS Regulations, April 2012, Safe Work Australia.
ADG Code	Australian Code for the Transport of Dangerous Goods by Road and Rail, 7 <sup>th</sup> edition, National

	Transport Commission.
WES	Workplace Exposure Standards For Airborne Contaminants, April 2013, Safe Work Australia.
WES	Guidance On The Interpretation Of Workplace Exposure Standards For Airborne Contaminants, April 2013, Safe Work Australia.
GHS	Globally Harmonized System of Classification and Labelling of Chemicals (GHS), 3 <sup>rd</sup> revised edition, United Nations, New York and Geneva, 2009.
GHS	Understanding the Globally Harmonized System of Classification and Labelling of Chemicals (GHS), United Nations, New York and Geneva, 2010.
HSIS	Hazardous Substances Information System (HSIS), internet advisory service, Safe Work Australia.
HCL	GHS Hazardous Chemical Information List (HCL), internet advisory service, Safe Work Australia.

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END OF SDS