



## MATERIAL SAFETY DATA SHEET

### PRODUCT: EXTRUDER LUBE

MSDS REF NO: EL001  
DATE OF ISSUE: 01/12/1998

VERSION: 3.1  
DATE OF REVISION: 08/10/2015

#### Section 1: Identification of the Product and Supplier

Product name	Product type	Supplier	Emergency Telephone Numbers
EXTRUDER LUBE	Claybrick Die Lube	Iscosa (Pty) Ltd 33 Borax Street Alrode Ext 7, Alberton South Africa	Office: +27 11 908 2511 Brett Freeman: +27 76 740 1356 Grant Freeman: +27 83 449 5489

#### Section 2: Composition / Application

Chemical name	CAS No:	Percent	Symbol
<b>Extruder Lube</b> is a water based extreme pressure die lubricant developed specifically for the clay brick industry. It is an aqueous blend of surfactants, modified vegetable oil esters and polyelectrolytes. It is recommended for use in both hard and soft extrusion applications.	Not classified	-	-

#### Section 3: Hazards Identification

<b>Physical /Chemical Hazards:</b>	Caution! May cause eye and skin irritation. May cause respiratory and digestive tract irritation.
<b>Human Health Hazards</b>	May cause irritation during use. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

#### Section 4: Potential Health Effects

<b>Inhalation</b>	May cause respiratory tract irritation. Not considered to be an aspiration risk.
<b>Ingestion</b>	May cause digestive tract irritation, diarrhoea.
<b>Skin contact</b>	Low hazard for industrial handling.
<b>Eye contact</b>	May cause mild eye irritation.

### Section 5: Transport Information

<b>Land:</b>	Not regulated as a hazardous material.
<b>Sea:</b>	Not regulated as a hazardous material.
<b>Air:</b>	Not regulated as a hazardous material.

### Section 6: First Aid measures

<b>Inhalation:</b>	<b>Extruder Lube</b> is not considered an aspiration risk provided that it is applied in a well ventilated area. If breathing problems do arise vacate the area and inhale fresh air and if the problem persists get medical attention.
<b>Ingestion:</b>	Rinse mouth. Get medical attention.
<b>Skin Contact:</b>	Remove all contaminated clothing and wash affected skin areas with plenty of soap and water. If the irritation persists get medical attention.
<b>Eye contact:</b>	Rinse immediately with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids (remove contact lenses). Get medical attention.
<b>Aggravating conditions:</b>	None.

### Section 7: Fire Fighting Measures.

<b>General Information:</b>	<b>Extruder Lube</b> is not flammable being a water based product, however the packaging could be and appropriate care should be exercised. Wear a self-contained breathing apparatus in pressure demand and full protective gear. Contained liquids can cause the packaging containers to burst if the contents are heated to boiling point.
<b>Extinguishing media:</b>	Use an extinguishing agent most appropriate to extinguish the surrounding fire.

### Section 8: Accidental Release Measures

<b>General Information:</b>	Use all of the personal protective clothing and equipment as indicated in Section 10. Do not compromise your safety or health by using sub-standard quality items.
<b>Spills and Leaks:</b>	<b>Extruder Lube</b> in concentrated or diluted form produces a slippery surface. Sweep up or absorb any spilt material and place it in a suitable clean dry enclosed container for disposal.

### Section 9: Handling and Storage

<b>Handling:</b>	<b>Extruder Lube</b> in its concentrated form is strongly alkaline and should be handled with care. Always use the recommended personal protection equipment when handling this product.
<b>Storage:</b>	Store in a cool, dry, well ventilated area away from incompatible substances.

### Section 10: Exposure Controls, Personal Protection

<b>Engineering Controls:</b>	Spills – Floor may become slippery - contain spill with absorbent material and apply a strong soap solution to the surface as a final clean-up process.  Apply in a well ventilated area, if spray applied.
<b>Hygiene Measures:</b>	Wash hands, forearms and face thoroughly after handling compounds. If your protective clothing and equipment has been contaminated get it cleaned before reuse.

### Section 11: Personal Protective Equipment

<b>Eyes:</b>	Wear appropriate eyeglasses or chemical safety goggles.
<b>Skin:</b>	Wear appropriate gloves to prevent skin exposure.
<b>Clothing:</b>	Wear appropriate clothing to prevent skin exposure.
<b>Respirator:</b>	Use appropriate respirator.

### Section 12: Physical and Chemical Properties

<b>Physical State:</b>	Liquid
<b>Appearance:</b>	Light amber / brown
<b>Odour:</b>	Mild soap odour
<b>pH Range</b>	8 – 9.5
<b>Evaporation Rate:</b>	Negligible
<b>Viscosity:</b>	Ford Cup 90 seconds
<b>Boiling Point</b>	100°C
<b>Freezing / Melting Point:</b>	<10°C ASTM D1177
<b>Decomposition Temperature:</b>	350°C
<b>Solubility:</b>	Soluble in Water
<b>Specific Gravity / Density</b>	1.00 – 1.1 @ 25°C
<b>Flash Point</b>	Non Flammable

**Section 13: Ecological Information.**

<b>Ecotoxicity:</b>	Non Toxic
<b>Environmental Fate:</b>	Biodegradable

**Section 14: Toxicological Information.**

<b>Carcinogenic Effects:</b>	None Reported
<b>Epidemiology:</b>	No information available
<b>Teratogenicity</b>	No information available
<b>Reproductive Effects:</b>	No information available
<b>Neurotoxicity:</b>	No information available
<b>Mutagenicity</b>	No information available

**Section 15: Stability and Reactivity**

<b>Chemical Stability:</b>	Stable under normal temperatures and pressures.
<b>Conditions to avoid:</b>	Incompatible materials, excess heat.
<b>Incompatible with other materials:</b>	Will saponify oils and greases.
<b>Hazardous Polymerisation:</b>	Has not been reported.

**Section 16: Disposal Considerations.**

<b>Methods of Disposal:</b>	Waste must be disposed of in accordance with local environmental control regulations.
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## MATERIAL SAFETY DATA SHEET

### PRODUCT: ULTRA HIVIS 4:1

MSDS REF NO: UHV001  
DATE OF ISSUE: 20/06/2005

VERSION: 3.1  
DATE OF REVISION: 08/10/2015

#### Section 1: Identification of the Product and Supplier

Product name	Product type	Supplier	Emergency Telephone Numbers
<b>ULTRA HIVIS 4:1</b>	Hivis Die Lube	Iscosa (Pty) Ltd	Office: +27 11 908 2511
		33 Borax Street	Brett Freeman: +27 76 740 1356
		Alrode Ext 7, Alberton	Grant Freeman: +27 83 449 5489
		South Africa	

#### Section 2: Composition / Application

Chemical name	CAS No:	Percent	Symbol
<b>Ultra Hivis 4:1</b> is a viscosified extreme pressure die lubricant and contains viscosifiers, polymers and surfactants. It is recommended for use in clay bodies that are porous because of the elevated levels of grog or fine quartz.	Not classified	-	-

#### Section 3: Hazards Identification

<b>Physical /Chemical Hazards:</b>	Caution! May cause eye and skin irritation. May cause respiratory and digestive tract irritation.
<b>Human Health Hazards</b>	May cause irritation during use. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

#### Section 4: Potential Health Effects

<b>Inhalation</b>	May cause respiratory tract irritation. Not considered to be an aspiration risk.
<b>Ingestion</b>	May cause digestive tract irritation, diarrhoea.
<b>Skin contact</b>	Low hazard for industrial handling.
<b>Eye contact</b>	May cause mild eye irritation.

#### Section 5: Transport Information

<b>Land:</b>	Not regulated as a hazardous material.
<b>Sea:</b>	Not regulated as a hazardous material.
<b>Air:</b>	Not regulated as a hazardous material.

#### Section 6: First Aid measures

<b>Inhalation:</b>	<b>Ultra Hivis 4:1</b> is not considered an aspiration risk provided that it is applied in a well ventilated area. If breathing problems do arise vacate the area and inhale fresh air and if the problem persists get medical attention.
<b>Ingestion:</b>	Rinse mouth. Get medical attention.
<b>Skin Contact:</b>	Remove all contaminated clothing and wash affected skin areas with plenty of soap and water. If the irritation persists get medical attention.
<b>Eye contact:</b>	Rinse immediately with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids (remove contact lenses). Get medical attention.
<b>Aggravating conditions:</b>	None.

#### Section 7: Fire Fighting Measures.

<b>General Information:</b>	<b>Ultra Hivis 4:1</b> is not flammable being a water based product, however the packaging could be and appropriate care should be exercised. Wear a self-contained breathing apparatus in pressure demand and full protective gear. Contained liquids can cause the packaging containers to burst if the contents are heated to boiling point
<b>Extinguishing media:</b>	Use an extinguishing agent most appropriate to extinguish the surrounding fire. .

#### Section 8: Accidental Release Measures

<b>General Information:</b>	Use all of the personal protective clothing and equipment as indicated in Section 11. Do not compromise your safety or health by using sub-standard quality items.
<b>Spills and Leaks:</b>	<b>Ultra Hivis 4:1</b> in concentrated or diluted form produces a slippery surface. Sweep up or absorb any spilt material and place it in a suitable clean dry enclosed container for disposal.

### Section 9: Handling and Storage

**Handling:** Ultra Hivis 4:1 in its concentrated form is strongly alkaline and should be handled with care. Always use the recommended personal protection equipment when handling this product.

**Storage:** Store in a cool, dry, well ventilated area away from incompatible substances.

### Section 10: Exposure Controls, Personal Protection

**Engineering Controls:** Spills – Floor may become slippery - contain spill with absorbent material and apply a strong soap solution to the surface as a final clean-up process.

Apply in a well ventilated area, if spray applied.

**Hygiene Measures:** Wash hands, forearms and face thoroughly after handling compounds. If your protective clothing and equipment has been contaminated get it cleaned before reuse.

### Section 11: Personal Protective Equipment

**Eyes:** Wear appropriate eyeglasses or chemical safety goggles.

**Skin:** Wear appropriate gloves to prevent skin exposure.

**Clothing:** Wear appropriate clothing to prevent skin exposure.

**Respirator:** Use appropriate respirator.

### Section 12: Physical and Chemical Properties

**Physical State:** Liquid

**Appearance:** Yellow / brown liquid

**Odour:** None Reported

**pH Range** 9-10

**Evaporation Rate:** Negligible

**Viscosity:** Ford Cup – 50 – 55 seconds@ 25°C

**Boiling Point** 100°C

**Freezing Point:** <2°C

**Decomposition Temperature:** 175°C

**Solubility:** Soluble in Water

**Specific Gravity / Density** 0.09 – 1.0

**Flash Point** Non Flammable

**Section 13: Ecological Information.**

<b>Ecotoxicity:</b>	Non Toxic
<b>Environmental Fate:</b>	Biodegradable

**Section 14: Toxicological Information.**

<b>Carcinogenic Effects:</b>	None Reported
<b>Epidemiology:</b>	No information available
<b>Teratogenicity</b>	No information available
<b>Reproductive Effects:</b>	No information available
<b>Neurotoxicity:</b>	No information available
<b>Mutagenicity</b>	No information available

**Section 15: Stability and Reactivity**

<b>Chemical Stability:</b>	Stable under normal temperatures and pressures.
<b>Conditions to avoid:</b>	Incompatible materials, excess heat.
<b>Incompatible with other materials:</b>	None Reported.
<b>Hazardous Polymerisation:</b>	Has not been reported.

**Section 16: Disposal Considerations.**

<b>Methods of Disposal:</b>	Waste must be disposed of in accordance with local environmental control regulations.
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