

**LAFRENTZ SYSTEM 400- EXTRUSION  
FORMULA 0414 – HI FLO GROUT  
MATERIAL SAFETY DATA SHEET  
A COMPONENT**

**SECTION 1 - PRODUCT IDENTIFICATION AND USE**

Product Identifier: HI FLO GROUT

**EXTRUSION LIQUID COMPONENT**

Product Identification Number (PIN): UN 1866

Product Use: Installation of weigh and motion sensors.

Manufactured and Supplied By: Lafrentz Road Marking  
A Division of Canadian Road Builders  
Inc.

1-26228 Township Road 530A  
Acheson, Alberta T7X 5A7

24-Hour Emergency Telephone Number: (613) 996-6666

**SECTION 2 - HAZARDOUS INGREDIENTS**

HAZARDOUS INGREDIENTS	%	CAS NUMBER	LD50 OF INGREDIENT	LC 50 OF INGREDIENT
METHYL METHACRYLATE	8 - 10	80-62-6	7872 mg/kg	not applicable
2 ETHYLHEXYL ACRYLATE	4 - 6	103-11-7	none	none

### SECTION 3 - PHYSICAL DATA

PHYSICAL STATE:	THICK LIQUID
ODOUR AND APPEARANCE:	STRONG CHARACTERISTIC ODOUR THICK LIQUID, COLOUR AS ON LABEL
ODOUR THRESHOLD:	LESS THAN 1 PPM
VAPOUR PRESSURE:	47 mbar
VAPOUR DENSITY:	3.45 of MMA (AIR = 1)
EVAPORATION RATE:	not available
BOILING POINT:	100 DEGR C.
FREEZING POINT:	-48 DEGR C.
PH:	not applicable
SPECIFIC GRAVITY:	2.0 g/ml
COEFF. WATER/OIL DIST.	Not applicable

### SECTION 4 - FIRE AND EXPLOSION DATA

FLAMMABILITY:	YES, SOMEWHAT FLAMMABLE
UNDER FOLLOWING CONDITIONS:	WHEN AN OPEN FLAME IS INTRODUCED THE PRODUCT WILL BURN SLOWLY. FIRE GOES OUT WHEN FLAME IS TAKEN AWAY.
MEANS OF EXTINCTION: DIOXIDE	WATER SPRAY, FOAM, and CARBON DRY CHEMICAL
FLASHPOINT:	17 DEGREES C.
UPPER FLAMMABILITY LIMIT:	12.5 (% by volume)
LOWER FLAMMABILITY LIMIT:	2.1 (% by volume)
AUTOIGNITION TEMPERATURE:	280 DEGREES C.
HAZARDOUS COMBUSTION PRODUCTS:	CO <sub>2</sub> ; CO
SENSITIVITY TO IMPACT:	NONE
SENSITIVITY TO STATIC DISCHARGE:	NONE

## SECTION 5 - REACTIVITY DATA

CHEMICAL STABILITY:	AVOID HEAT, LIGHT AND DIRECT SUNLIGHT METHYL METHACRYLATE MONOMER (MMA) TENDS TO SELF-POLYMERIZATION WITH HEAT BUILD-UP (EXOTHERMIC REACTION).
INCOMPATIBLE MATERIALS:	RADICAL SOURCES SUCH AS PEROXIDES, AZO COMPOUNDS, HEAVY METAL IONS, REDOX-SYSTEMS, AMINES, SULPHUR COMPOUNDS. MMA ACTS AS A STRONG SOLVENT AND CAN SOFTEN SOME PLASTIC, PAINT & RUBBER.
CONDITIONS OF REACTIVITY:	MMA HAS AN INHIBITOR AGAINST SELF- POLYMERIZATION. OXYGEN OF AIR IMPROVES THE EFFICIENCY OF THE INHIBITOR. AVOID STORAGE UNDER OXYGEN FREE ATMOSPHERE.
POSSIBLE HAZARDOUS DECOMPOSITION PRODUCTS:	NOT AVAILABLE

## SECTION 6 - TOXICOLOGICAL PROPERTIES

ROUTES OF ENTRY	
SKIN CONTACT:	YES
SKIN ABSORPTION:	YES
EYE CONTACT:	YES
INHALATION:	YES
INGESTION:	YES
ACUTE OVER EXPOSURE EFFECTS:	MAY BE IRRITATING AFTER SWALLOWING, SKIN ONTACT OR INHALATION
CHRONIC OVER EXPOSURE EFFECTS:	DERMATITIS
EXPOSURE LIMITS:	NOT AVAILABLE
IRRITANCY OF PRODUCT:	EYES, SKIN, RESPIRATORY TRACT, and GASTROINTESTINAL TRACT
SENSITIZATION TO PRODUCT:	BY SKIN CONTACT

CARCINOGENICITY:	NONE REPORTED
TERATOGENICITY:	NONE REPORTED
REPRODUCTIVE TOXICITY:	NONE REPORTED
MUTAGENICITY:	NONE REPORTED
SYNERGISTIC PRODUCTS:	NONE REPORTED

## SECTION 7 - PREVENTATIVE MEASURES

### PERSONAL PROTECTIVE EQUIPMENT:

GLOVES:	RUBBER OR PVA
RESPIRATORY:	ORGANIC VAPOUR/ACID
EYES:	GOGGLES
FOOTWEAR:	NOT APPLICABLE
CLOTHING:	NO SPECIAL CLOTHING
OTHER:	SAFETY SHOWERS & EYE WASH SYSTEMS

ENGINEERING CONTROLS:	USE OUTDOORS. EXHAUST VENTILATION RECOMMENDED WHEN USED INDOORS.
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LEAK AND SPILL PROCEDURE: THOROUGHLY.	ADD B.P.O. 3% BY WEIGHT AND MIX IN PEEL OFF WHEN LIKE PUTTY, THEN LANDFILL.
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WASTE DISPOSAL:	ADD 1% B.P.O. POWDER SPREAD OUT NOT MORE THAN 3 CM. THICK, LANDFILL WHEN HARD.
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HANDLING PROCEDURES AND EQUIPMENT: WITH	DO NOT EAT, DRINK OR SMOKE WHILE WORKING MATERIALS.
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STORAGE REQUIREMENTS:	STORE IN COOL, VENTILATED AREA. KEEP AWAY FROM INCOMPATIBLE MATERIALS.
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SPECIAL SHIPPING INFORMATION: DANGEROUS	CONTROLLED UNDER "TRANSPORT OF GOODS" LEGISLATION AS A FLAMMABLE.
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## SECTION 8 - FIRST AID MEASURES

SKIN:	RINSE WITH SOAP AND WATER. REMOVE CLOTHING AND SHOES AFTER FLUSHING HAS BEGUN.
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EYE:	FLUSH EYES WITH
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		LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. SEEK MEDICAL ATTENTION.
MOVE	INHALATION:	INHALATION OF VAPOURS MAY CAUSE NAUSEA, INDIVIDUAL TO FRESH AIR
	INGESTION:	IF SWALLOWED, KEEP AT REST, SEEK MEDICAL ATTENTION.

## SECTION 9 – DISPOSAL CONSIDERATIONS

### Procedures

Waste must be disposed of in accordance with federal, state and local regulations. Incineration is the preferred method. Empty containers must be handled with care due to product residue. DO NOT HEAT OR CUT THE EMPTY CONTAINER WITH ELECTRIC OR GAS TORCH. Do not reuse containers.

## SECTION 10 – TRANSPORT INFORMATION

### US DOT Hazard Classification

Proper Shipping Name:	Methyl Methacrylate monomer, stabilized
Hazard Class:	3
ID/UN Number:	UN 1866
Packing Group:	II
ERG:	127

### Canadian TDG Classification

Refer to the classification US DOT

### Shipment by sea IMDG/GGVSee

Class 3	EmS 3-05	UN number 1866
Marine pollutant	Packed (+/0): 0	
Packaging group	II	
Proper Shipping Name	Methyl methacrylate monomer, stabilized	
Hazardous constituent:	methyl methacrylate	

Air transport ICAO/IATA

Class 3	UN number 1866
Packaging Group	II
Proper Shipping Name	Methyl methacrylate monomer, stabilized

## **SECTION 11 - PREPARATION DATE OF MSDS**

PREPARED BY: LAFRENTZ ROAD MARKING, A Division of Canadian Road Builders Inc. –  
Production Department

DATE: May 12, 2009

PHONE NUMBER: (780) 962-7800

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