

**LAFRENTZ SYSTEM 400- EXTRUSION
SAFETY DATA SHEET
A COMPONENT**

SECTION 1 - PRODUCT IDENTIFICATION AND USE

Product Identifier: Lafrentz Formulas 400 Series.

EXTRUSION LIQUID COMPONENT

Product Identification Number (PIN): UN 1263

Product Use: Permanent plastic traffic lines and markings.

Manufactured and Supplied By: Lafrentz Road Marking
A Division of Canadian Road Builders Inc.
Zone 4, 26120 Acheson Road
Acheson, Alberta T7X 6B3

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

SECTION 2 - HAZARDS IDENTIFICATION

Emergency Overview

Appearance	Liquid
Odour	Ester-like

GHS classification in accordance with the Hazardous Products Regulations

Flammable liquid : Category 1
Skin Irritation : Category 2
Eye Irritation : Category 2B
Respiratory or Skin Sensitization : Category 1B
Carcinogenicity : Category 2
Hazardous to the Aquatic Environment : Category 1

Signal Word : WARNING

Hazard Statements:

H226 Flammable liquid and vapour
H227 Combustible liquid
H303 May be harmful if swallowed
H317 May cause an allergic skin reaction
H320 Causes eye irritation
H335 May cause respiratory irritation
H351 Suspected of causing cancer
H402 Harmful to aquatic life

Precautionary Statements:

Prevention:

P202 Do not handle until all safety precaution have been read and understood
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P261 Avoid breathing dust / fumes / gas / mist / vapors / spray
P262 Do not get in eyes, on skin, or on clothing
P280 Wear protective gloves/protective clothing / eye protection / face protection

Response:

P302+352 IF ON SKIN: Wash with plenty of water
P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P370+378 In case of fire: Use water spray, foam, carbon dioxide, and dry chemical

Storage:

P403 Store in a well ventilated place
P410 Protect from sunlight
P412 Do not expose to temperatures exceeding 50°C / 122°F

Disposal:

P501 Dispose of contents adding 1% BPO powder by weight, landfill when hard

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Substance / Mixture: Mixture
Chemical nature: Flammable liquid

Hazardous ingredient	CAS-No	Concentration %
METHYL METHACRYLATE	80-62-6	8 - 10
2 ETHYLHEXYL ACRYLATE	103-11-7	4 - 6

SECTION 4 - FIRST AID MEASURES

IN CASE OF SKIN CONTACT: RINSE WITH SOAP AND WATER. REMOVE CLOTHING AND SHOES AFTER FLUSHING HAS BEGUN.

IN CASE OF EYE CONTACT: FLUSH EYES WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. SEEK MEDICAL ATTENTION.

IN CASE OF INHALATION: INHALATION OF VAPOURS MAY CAUSE NAUSEA, MOVE INDIVIDUAL TO FRESH AIR.

IN CASE OF INGESTION: IF SWALLOWED, KEEP AT REST, SEEK MEDICAL ATTENTION.

SECTION 5 - FIRE AND EXPLOSION DATA

FLAMMABILITY: SOMEWHAT FLAMMABLE

UNDER FOLLOWING CONDITIONS: WHEN AN OPEN FLAME IS INTRODUCED THE PRODUCT WILL BURN SLOWLY. FIRE GOES OUT WHEN FLAME IS REMOVED.

MEANS OF EXTINCTION: WATER SPRAY, FOAM, CARBON DIOXIDE, AND 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: CO₂; CO

SENSITIVITY TO IMPACT: NONE

SENSITIVITY TO STATIC DISCHARGE: NONE

SECTION 6 – ACCIDENTAL RELEASE MEASURES

PRECAUTIONARY MEASURES:	TAKE CARE FOR ADEQUATE VENTILATION. USE PERSONAL PROTECTIVE CLOTHING. KEEP AWAY SOURCES OF IGNITION.
ENVIRONMENTAL MAEASURES:	PREVENT PRODUCT FROM GETTING INTO DRAINS/SURFACE WATER/GROUNDWATER
LEAK AND SPILL PROCEDURE:	ADD B.P.O. 3% BY WEIGHT AND MIX IN THOROUGHLY. PEEL OFF WHEN LIKE PUTTY, THEN LANDFILL.

SECTION 7 – HANDLING AND STORAGE

HANDLING PROCEDURES AND EQUIPMENT:	DO NOT EAT, DRINK OR SMOKE WHILE WORKING WITH MATERIALS.
STORAGE REQUIREMENTS:	STORE IN COOL, VENTILATED AREA. KEEP AWAY FROM INCOMPATIBLE MATERIALS.
SPECIAL SHIPPING INFORMATION:	CONTROLLED UNDER "TRANSPORT OF DANGEROUS GOODS" LEGISLATION AS A FLAMMABLE.

SECTION 8 – EXPOSURE CONTROL/PERSONAL PROTECTION

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
VENTILATION:	USE OUTDOORS. EXHAUST VENTILATION RECOMMENDED WHEN USED INDOORS.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

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 10 – STABILITY AND 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 11 - 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 CONTACT 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 12 – ECOLOGICAL INFORMATION

Information on elimination (persistence and degradability)

Biodegradability:

biodegradable
(monomer constituent)

Ecotoxicological effect

Fish toxicity:

LC50 *Oncorhynchus mykiss*, rainbow trout, OECD 203, flow through, GLP, 96 h > 79 mg/l

Related to substance: methyl methacrylate

LC50 rainbow trout, 96 h 2 mg/l

Related to substance: trimethylol propane trimethacrylate

Daphnia toxicity:

EC50 *Daphnia magna*, OECD 202, flow through, 48 h 69 mg/l

Related to substance: methyl methacrylate

NOEC *Daphnia magna*, OECD 202 part 2, flow through, 21 d 37 mg/l

Related to substance: methyl methacrylate

EC50 *Daphnia magna*, OECD 202 / ISO 6341 / 84/449/EEC V, C2, 48 h 17,5 mg/l

Related to substance: 2-ethylhexyl acrylate

Algae toxicity:	EC3 Scenedesmus quadricauda, cell proliferation inhibition test, 8 d	37 mg/l
	Related to substance: methyl methacrylate	
Bacteria toxicity:	EC0 Pseudomonas putida	100 mg/l
	Related to substance: methyl methacrylate	

SECTION 13 – 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.

WASTE DISPOSAL: ADD 1% B.P.O. POWDER, MIX PRODUCT, WAIT UNTIL HARDENED AND LANDFILL.

SECTION 14 – TRANSPORT INFORMATION

US DOT Hazard Classification

Proper Shipping Name:	RESIN SOLUTION, flammable
Hazard Class:	3
ID/UN Number:	UN 1263
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 1263
Marine pollutant	Packed (+/0): 0	
Packaging group	II	
Proper Shipping Name	RESIN SOLUTION, flammable	
Hazardous constituent:	methyl methacrylate	

Air transport ICAO/IATA

Class 3	UN number 1263
Packaging Group	II
Proper Shipping Name	RESIN SOLUTION, flammable

SECTION 15 – REGULATORY INFORMATION

Labelling in accordance with Canadian Transportation of Dangerous Goods Regulations

Hazardous component(s) for labelling

Contains methyl methacrylate
2-ethylhexyl acrylate

SECTION 16 – OTHER INFORMATION

Miscellaneous Information: THE PRODUCT IS NORMALLY SUPPLIED IN A STABILIZED FORM. IF THE PERMISSIBLE STORAGE PERIOD AND/OR STORAGE TEMPERATURE IS EXCEEDED, THE PRODUCT MAY POLYMERIZE WITH HEAT EVOLUTION.

References: RELEVANT MANUALS AND PUBLICATIONS
OWN EXAMINATIONS
TOXICOLOGICAL AND ECOTOXICOLOGICAL STUDIES OF OTHER MANUFACTURERS

PREPARED BY: LAFRENTZ ROAD MARKING, A Division of Canadian Road Builders Inc. –
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DATE: December 1, 2018

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Notice

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