

MATERIAL SAFETY DATA SHEET

SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : PEGALOCK 9002 (COMPONENT A)
 RECOMMENDED USE : Adhesive
 CREATION DATE : November 9, 2004
 REVISION DATE : December 6, 2010
 KOATSU GAS KOGYO CO., LTD. EMERGENCY TELEPHONE NUMBER:
 1-5, Doyama-cho, Kita-ku, +81-6-6311-1361
 Osaka, 530-8411, Japan

SECTION 2 COMPOSITION, INFORMATION ON INGREDIENTS

<u>COMPONENT</u>	<u>CAS NUMBER</u>	<u>CONCENTRATION(%)</u>
Methyl methacrylate	80-62-6	50-60
2-Hydroxyethyl methacrylate	868-77-9	5-15
2,3-Epoxypropyl Methacrylate	106-91-2	1-5
Acrylonitrile-Butadiene Copolymer	9003-18-3	10-20
Cumene Hydroperoxide	80-15-9	1-5

SECTION 3 HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

Harmful, Irritant, Sensitize, Flammable

POTENTIAL HEALTH EFFECTS:

INHALATION:

Vapor may be irritant to the respiratory tract.

SKIN CONTACT:

Corrosive, Repeated and/or prolonged contact may skin sensitization.

EYE CONTACT:

Corrosive, causes eye burns.

INGESTION:

Corrosive to mouth, esophagus and stomach.

PHYSICO-CHEMICAL:

May readily catch fire after brief contact with source of ignition.

ENVIRONMENTAL:

Not available.

SECTION 4 FIRST AID MEASURES

INHALATION: Give artificial respiration if not breathing. Get immediate medical attention. If medical attention is not required, remove to uncontaminated area.

SKIN CONTACT: Flush exposed areas thoroughly with soap and water until all chemical is removed. Remove contaminated clothing and launder before reuse. Unless the itchiness or the inflammation went, get medical attention.

EYE CONTACT: Wash by a large quantity of water for more than 15 min and get medical attention immediately.

INGESTION: Wash by water thoroughly. Then drink a large quantity of water and vomit it. Get medical attention.

SECTION 5 FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Regular dry chemical, carbon dioxide, water, regular foam
LARGE FIRES: Fire fighter should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fires.

FIRE AND EXPLOSION HAZARDS: Combustion may release noxious or toxic vapors.

HAZARDOUS COMBUSTION PRODUCTS: Carbon monoxides, carbon dioxide, Unknown hydrocarbons

FLASH POINT: 10-20 (Setaflash Closed Tester)

SECTION 6 ACCIDENTAL RELEASE MEASURES

OCCUPATIONAL RELEASE: Avoid heat, flames, sparks and other sources of ignition. Stop leak if possible without personal risk. Reduce vapors with ventilation.

SMALL SPILLS: Absorb with sand or other non-combustible material. Collect spilled material in appropriate container for disposal.

SECTION 7 HANDLING AND STORAGE

HANDLING/STORAGE: Store in a cool, dry and dark place. Keep away from heat, sources of ignition and incompatible substances.

SENSITIVE TO STATIC ELECTRICITY: Yes

SENSITIVE TO MECHANICAL IMPACT: No

SECTION 8 EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE LIMITS:

Methyl methacrylate: ACGIH – 50ppm(TLV-TWA), 100ppm(TVL-STEL)

OCCUPATIONAL EXPOSURE CONTROLS:

VENTILATION: Provide local exhaust ventilation system. Ventilation equipment should be explosion-resistant if explosive concentrations of material are present. Ensure compliance with applicable exposure limits.

EYE PROTECTION: Wear splash resistant safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

CLOTHING: Wear appropriate chemical resistant clothing.

GLOVES: Wear appropriate chemical resistant gloves.

RESPIRATOR: Wear any chemical cartridge respirator with organic vapor cartridge(s).

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

PURE SUBSTANCE OR PREPARATION: Preparation

PHYSICAL STATE: liquid

COLOR: Green

ODOR: Acrylic odour

BOILING POINT: 101

RELATIVELY DENSITY: 1.0 – 1.1

WATER SOLUBILITY: Insoluble

VOLATILITY: Yes

COEFFICIENT OF WATER/OIL DISTRIBUTION: Not available

SECTION 10 STABILITY AND REACTIVITY

REACTIVITY: Stable at normal temperatures and pressure.

CONDITIONS TO AVOID: Avoid heat, flames, sparks and other sources of ignition.

INCOMPATIBILITIES: Keep out of basic substances and reducing agents.

HAZARDOUS DECOMPOSITION:

Thermal decomposition products: Carbon monoxides, carbon dioxide,
Unknown hydrocarbons

SECTION 11 TOXICOLOGICAL INFORMATION

HEALTH EFFECTS:

INHALATION:

ACUTE EXPOSURE:

Methyl methacrylate: May cause irritation of the respiratory tract.

CHRONIC EXPOSURE:

Methyl methacrylate: No data available.

SKIN CONTACT:

ACUTE EXPOSURE:

Methyl methacrylate: May cause irritation and bonding of the skin.

Rarely, may cause thermal burns.

CHRONIC EXPOSURE:

Methyl methacrylate: No data available.

EYE CONTACT:

ACUTE EXPOSURE:

Methyl methacrylate: May cause irritation, lacrimation, double vision,
and tissue damage usually with no permanent effects. Direct contact may seal
eyelids shut. Separation may cause mechanical damage to cornea.

CHRONIC EXPOSURE:

Methyl methacrylate: No data available.

INGESTION:

ACUTE EXPOSURE:

Methyl methacrylate: Contact may cause bonding of the mouth and lips.
CHRONIC EXPOSURE:

Methyl methacrylate: No data available.

SECTION 12 ECOLOGICAL INFORMATION

POTENTIAL EFFECT ON ENVIRONMENT:

MMA has estimate of 48-96 hours median tolerance limit, goldfish;426-277mg/L;
96hours LC₅₀, Bluegill Sunfish 91mg/L; 96hours LC₅₀, Guppy 91mg/L.

SECTION 13 DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Waste disposal should be in accordance with existing
Community, National and local regulations.

SECTION 14 TRANSPORT INFORMATION

AIR TRANSPORT IATA/ICAO:

PROPER SHIPPING NAME	Flammable Liquid
TECHNICAL NAME	Adhesive
HAZARD CLASS	3
U.N. NUMBER	1133
PACKING GROUPE	

MARITIME TRANSPORT IMDG:

PROPER SHIPPING NAME	Flammable Liquid
TECHNICAL NAME	Adhesive
HAZARD CLASS	3
U.N. NUMBER	1133
PACKING GROUPE	

SECTION 15 REGULATORY INFORMATION

U.S. REGULATIONS:

CERCLA SECTIONS 102a/103 HAZARDOUS SUBSTANCES (40 CFR 302.4):

METHYL METHACRYLATE: 1000 LBS RQ

CUMENE HYDROPEROXIDE: 10 LBS RQ

SARA TITLE III SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355.30):

All ingredients are not regulated.

SARA TITLE III SECTION 304 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355.40):

All ingredients are not regulated.

SARA TITLE III SARA SECTIONS 311/312 HAZARDOUS CATEGORIES (40 CFR 370.21):

ACUTE: Yes

CHRONIC: Yes

FIRE: Yes

REACTIVE: Yes

SUDDEN RELEASE: No

SARA TITLE III SECTION 313 (40 CFR 372.65):

METHYL METHACRYLATE
CUMENE HYDROPEROXIDE
OSHA PROCESS SAFETY (29CFR1910.119):
CUMENE HYDROPEROXIDE 5000 LBS TQ
STATE REGULATIONS:
California Proposition 65:
All ingredients are not regulated.

SECTION 16 OTHER INFORMATION

The information and recommendation contained in this MSDS are based on the best knowledge available to us at the time of issue.
However, no warranty is made, either express or implied, as to its correctness or completeness, or as to the results of reliance on this MSDS.

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Methyl methacrylate	80-62-6	45-55
2-Hydroxyethyl methacrylate	868-77-9	15-25
Methacrylic acid	79-41-4	5-15
Acrylonitrile-Butadiene Copolymer	9003-18-3	10-20

SECTION 3 HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

Irritant, Sensitize, Flammable, Corrosive

POTENTIAL HEALTH EFFECTS:

INHALATION:

Vapor may be irritant to the respiratory tract.

SKIN CONTACT:

Corrosive, Repeated and/or prolonged contact may skin sensitization.

EYE CONTACT:

Corrosive, causes eye burns.

INGESTION:

Corrosive to mouth, esophagus and stomach.

PHYSICO-CHEMICAL:

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ENVIRONMENTAL:

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INHALATION: Give artificial respiration if not breathing. Get immediate medical attention. If medical attention is not required, remove to uncontaminated area.

SKIN CONTACT: Flush exposed areas thoroughly with soap and water until all chemical

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HAZARDOUS COMBUSTION PRODUCTS: Carbon monoxides, carbon dioxide, Unknown hydrocarbons

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OCCUPATIONAL RELEASE: Avoid heat, flames, sparks and other sources of ignition.

Stop leak if possible without personal risk. Reduce vapors with ventilation.

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HANDLING/STORAGE: Store in a cool, dry and dark place. Keep away from heat, sources of ignition and incompatible substances.

SENSITIVE TO STATIC ELECTRICITY: Yes

SENSITIVE TO MECHANICAL IMPACT: No

SECTION 8 EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE LIMITS:

Methyl methacrylate: ACGIH – 100ppm(TLV-TWA), 125ppm(TVL-STEL)

Methacrylic acid: ACGIH – 20ppm(TLV-TWA)

OCCUPATIONAL EXPOSURE CONTROLS:

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EYE PROTECTION: Wear splash resistant safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

CLOTHING: Wear appropriate chemical resistant clothing.

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PHYSICAL STATE: liquid

COLOR: Pink

ODOR: Acrylic odour

BOILING POINT: 101

RELATIVELY DENSITY: 1.0 – 1.1

WATER SOLUBILITY: Insoluble

VOLATILITY: Yes

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CHRONIC EXPOSURE:

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TECHNICAL NAME	Adhesive
HAZARD CLASS	3
U.N. NUMBER	1133
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SARA TITLE III SARA SECTIONS 311/312 HAZARDOUS CATEGORIES (40 CFR 370.21):

ACUTE: Yes

CHRONIC: Yes

FIRE: Yes

REACTIVE: Yes

SUDDEN RELEASE: No

SARA TITLE III SECTION 313 (40 CFR 372.65):

METHYL METHACRYLATE

OSHA PROCESS SAFETY (29CFR1910.119):

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STATE REGULATIONS:

California Proposition 65:

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