



MATERIAL SAFETY DATA SHEET

NAME OF PRODUCT ICAP/MP (FC)

MSDS DATE: 3/13/2012

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: INTERCOAT ADHESION PRIMER / METAL PRIMER (Fast-Cure)
PRODUCT CODES: ICAP/MP

MANUFACTURER: ER SYSTEMS (AN ITW COMPANY)
ADDRESS: 12271 MONARCH STREET, GARDEN GROVE, CA 92841
INFORMATION PHONE: 714-898-0025
FAX NUMBER: 714-898-5687

EMERGENCY Contact during transit:
INFOTRAC 1-800-535-5053
CUSTOMER ID: 74919

PRODUCT USE: PRIMER FOR METAL(S) AND FOR BETWEEN COATS (OLD AND/OR NEW)
PREPARED BY: ER SYSTEMS

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS / CAS #	OSHA TWA	ACGIH TWA	ACGIH/OSHA STEL	LD50/LC50	WT %
Methyl Alcohol #67-56-1	200 ppm	200ppm	250ppm (ACGIH)		90 – 95

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Danger! Contains Methanol. Flammable Liquid and vapor. Harmful if inhaled. Eye irritant. May be fatal or cause blindness if swallowed. May cause respiratory tract and skin irritation. Prolonged and repeated skin contact can cause death or blindness. Possible birth defect hazard. Contains material which may cause birth defects based on animal study data. Avoid ignition sources. Vapor is heavier than air and can travel to a distance to source of ignition and flashback.

ROUTES OF ENTRY: skin, eyes, inhalation, ingestion

Target Organ Effects: Overexposure (prolonged and repeated) may cause: CNS depression, Eye Injury, Skin drying, local irritation at the site of exposure.

POTENTIAL HEALTH EFFECTS

EYES: Exposure to vapors and liquid can cause eye irritation. Symptoms of exposure may include: eye irritation, burning sensation, pain, watering and/or vision change. Eye injury can persist for several days.

SKIN: May cause skin irritation. Prolonged and repeated contact may dry skin and cause irritation. May be harmful if absorbed through skin. Symptoms of exposure may include: drying, cracking or inflammation of skin. Central nervous system (CNS) depression with headache, stupor, uncoordinated or strange behavior or unconsciousness. Prolonged and/or repeated contact with methanol soaked material can produce toxic effects including vision effects and death.

INGESTION: Can be fatal if swallowed. Symptoms of exposure may include: a small amount of methanol (two or more ounces) can cause mental sluggishness, nausea and vomiting leading to severe illness and may produce adverse effects on vision with possible blindness or death if treatment is not received.

INHALATION: Inhalation may cause respiratory tract irritation. Symptoms of exposure may include: CNS depression with nausea, dizziness, headache, stupor, uncoordinated or strange behavior or unconsciousness. Adverse effects on vision.

Reproductive: May cause adverse reproductive effects based on animal data.

Carcinogenic: No evidence of carcinogenicity.

Mutagenic: Does not show mutagenic potential in most in vitro tests.

Teratogenic: May cause birth defects based on animal data.



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MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: skin, eyes, central nervous system (CNS), digestive tract.

SECTION 3 NOTES: This information has been taken from the Material Safety Data Sheet of Methanol since the product has the major portion of methanol.

SECTION 4: FIRST AID MEASURES

EYES: Immediately flush with plenty of water for at-least 15 minutes with eyelids wide open. Have eyes examined by physician immediately.

SKIN: Wash material off the skin with plenty of soap and water. If redness, itching or burning develops, consult a physician. Remove contaminated clothing and wash them before reuse.

INGESTION: If victim is drowsy or unconscious, place on the left side with head down. Do not give anything by mouth. If victim is conscious and alert, vomiting should be induced preferably with syrup of IPECAC under doctor's direction or poison center.

INHALATION: Remove person to fresh air. If not breathing, give artificial respiration, preferable mouth-to-mouth. If breathing is labored, give oxygen. Consult a physician immediately. **DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.**

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: Since methanol is the major portion in the formulation (90%), to the best of our knowledge, the exposure may be treated based on methanol.

SECTION 4 NOTES:

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR, UPPER: 36% (methanol)
(% BY VOLUME) LOWER: 7.3%

FLASH POINT: 58°F (pensky marten closed cup)

AUTOIGNITION TEMPERATURE: 464°C (867°F) (methanol)

NFPA HAZARD CLASSIFICATION

HEALTH: 1 FLAMMABILITY: 3 REACTIVITY: 0

HMS HAZARD CLASSIFICATION

HEALTH: 2 FLAMMABILITY: 3 REACTIVITY: 0

EXTINGUISHING MEDIA: carbon dioxide, dry chemical for small fires, or universal type foam

SPECIAL FIRE FIGHTING PROCEDURES: The use of a SCBA is recommended for fire fighters. Water spray may be useful in minimizing vapors and cooling containers exposed to heat and flame. Avoid spreading burning liquid with water used for cooling purpose.

UNUSUAL FIRE AND EXPLOSION HAZARDS: This material is flammable and may ignite by heat, sparks, flame or static electricity. If container is not properly cooled, it may explode in a heat of fire.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition products may include oxides of carbon

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: Eliminate ignition sources. Wear appropriate protective equipment to avoid contact. If spill is large contain with dike (soil, nonflammable absorbent can be used). Water fog stream may help reduce vapors. If fire potential exists, blanket spill with alcohol type aqueous film forming foam or use water fog stream to disperse vapors. Avoid runoff into storm sewers and waterways. In case of small spill, dike if required using inert non-flammable absorbent. Gather the liquid in a waste container. Dispose properly. Keep container lid loose to avoid pressure build-up in the can. Store waste containers away from ignition sources. In case of container leak, empty in a new container. Avoid water contamination. Water can react with the product and cause container pressure build-up if closed air-tight.



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SECTION 6 NOTES: The product is sold mostly in quarts due to air quality regulations. Hence chance for large spill may be rare.

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Use with adequate ventilation. Keep containers closed when not in use. Always open containers slowly to allow any pressure to vent. Avoid breathing vapors. Avoid eye and skin contact. Do not ingest. Wash thoroughly with soap and water after use. Wash contaminated clothing before re-use. Contaminated shoes and/or any other leather clothing should be destroyed since they may not be able to wash.

Keep containers tightly closed when not in use. Store out of direct sunlight and on an impermeable floor.

OTHER PRECAUTIONS: This product may generate a static charge. If equipment is used, Ground/bond to avoid static. Shut off ignition sources when application is done until the product sets up. Do not smoke.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Local and/or local mechanical exhaust. Explosion-proof ventilation. Ground exhausts system to avoid static.

RESPIRATORY PROTECTION: Wear MSHA/NIOSH approved organic vapor or charcoal filtered cartridge respirator.

EYE PROTECTION: Chemical tight goggles; full face shield in addition if splashing is possible.

SKIN PROTECTION: Wear impervious clothing and gloves to prevent contact. Butyl rubber can be most effective. Other protective material may be used depending on the situation.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Coveralls and/or apron may be enough to protect from skin contact. Applicator should decide. Provide eye station and showers in case of contact. We advice applicator should be properly trained.

WORK HYGIENIC PRACTICES: Always wash before drinking, eating, or using restroom. KEEP AWAY FROM CHILDREN, PETS AND PREGNANT WOMEN.

EXPOSURE GUIDELINES: see section 2.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear water like mobile liquid mixture

ODOR: mild alcohol odor

PHYSICAL STATE: fluid water like

BOILING POINT: 148.5°F (64.7C) (methanol)

FREEZING POINT: - 144°F (- 97.8C) (methanol)

VAPOR PRESSURE (mmHg): 127 mm Hg @ 25C (77oF)

VAPOR DENSITY (AIR = 1): 1.11

SPECIFIC GRAVITY (H2O = 1): 0.795 – 0.82

EVAPORATION RATE: 3.5 (methanol)

SOLUBILITY IN WATER: slight

PERCENT SOLIDS BY WEIGHT: <= 10

VOLATILE ORGANIC COMPOUNDS (VOC): 730 grams per liter

VISCOSITY: water like consistency

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable under normal conditions

CONDITIONS TO AVOID (STABILITY): Avoid extreme heat conditions such as flame, sparks, and static.

INCOMPATIBILITY (MATERIAL TO AVOID): avoid moisture contamination, strong acids and oxidizers.



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HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Combustion may yield carbon monoxide and carbon dioxide.

HAZARDOUS POLYMERIZATION: will not occur

CONDITIONS TO AVOID (POLYMERIZATION): none known

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:

Methanol:

LD50 (Oral, Rats): 6.2 -12.9 g/kg

LC50 (Inhalation, rats, 4hrs): 64,000ppm

Skin: Irritating to rabbit skin; severity depends on the quantity administered and exposure period and is related to the defatting properties of methanol; slightly toxic to animals- minimum lethal dose: monkeys – 1.6g/kg; rabbits: 16g/kg

Eye: Severely irritating to rabbit eyes

Mutagenicity: Not genotoxic in most in-vitro assays. Not genotoxic in-vivo in mice exposed via inhalation up to 4000ppm (6hrs/day) for 5 days and subsequently examined for cytogenetic effects.

Carcinogenicity: Inhalation- not carcinogenic in lifetime inhalation studies in rats and mice at concentrations of 10 – 1000 ppm. Dermal – not carcinogenic in mice exposed dermally to 0.02 ml/day, 2days/week over a lifetime in a study of limited quality.

Reproductive/Developmental effects: Inhalation: rats exposed 6hrs/day to 5000 , 10000 or 20000 ppm vapors. A significant teratogenic response was seen at 20000ppm. Fetotoxicity was noted at 10000ppm, but not at 5000ppm. In mice exposed 7hrs/day to 2000, 5000 or 10000ppm vapors, the mice developed toxicity at all levels. Oral administration of methanol via gavage at 1.3, 2.6, or 5.2 ml/kg to rats resulted in developmental toxicity at all levels.

Repeated Exposure: Inhalation exposure (6hrs/day, 5days/week) of monkeys to vapor concentrations of 500, 2000, or 5000 ppm for 4 weeks did not result in any treatment related effects. Monkeys exposed to methanol vapors of 10, 100, or 1000ppm for 22hrs/day for up to 2.5 years showed changes in the liver, kidney and nervous system at 1000ppm. Rats exposed by oral gavage to 100, 500 or 25000 mg/kg for 90 days exhibited only effects on organ weight (brain) and serum enzymes (SGPT,AP) at the high dose.

SECTION 11 NOTES: for information to health, please read section 3 (Health Identification). Above information is that of methanol since it is maximum in quantity in the product formulation. No information on the product available.

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION:

Methanol: Ecotoxicity:

Methanol exhibits low acute toxicity to aquatic species.

LC50 (24, 48, 96 hrs): 1700 – 28100 ppm range (fish species: bluegill sunfish, fathead minnows, rainbow trout, goldfish, carp, bleak, creek chub)

EC50 (18, 24, 48 hrs): 10000 – 24500 ppm range (water flea (daphnids))

LC50 (18hrs, grass shrimp): 21900 ppm; LC50 (brine shrimp, 24 hrs): > 10000ppm

Cell multiplication was inhibited after 8 days exposure to 8000 ppm and 530 ppm in green algae and blue green algae respectively.

Environmental Fate: The ability of animals and microorganisms to rapidly biodegrade methanol coupled with its n-octane/water partition coefficient is expected to lead to its rapid removal if released into the environment.

Degradation: Under aerobic conditions methanol is readily biodegradable. The 5-day BOD values are 48-83% of COD. Biodegradation also occurs under anaerobic conditions, 83-91% degradation in a marine water/sediment system after 3-days. Atmospheric photochemical degradation (half-life) is estimated to be 17.8 days.

Bioaccumulation: The log n-octanol/water partition coefficient for methanol is -0.77. This suggests that methanol has low potential to bioaccumulate.

SECTION 12 NOTES: Information obtained based on Methanol MSDS since it is the major ingredient in the product formulation.

SECTION 13: DISPOSAL CONSIDERATIONS



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WASTE DISPOSAL METHOD: Dispose waste in accordance with state, federal and local regulations. Product can be incinerated.

SECTION 13 NOTES: Handling and disposal information may also apply to empty containers. Contact your waste disposal company for suggestions.

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION

PROPER SHIPPING NAME: Flammable Liquid Mixture (Contains Methanol)
HAZARD CLASS: 3 (Flammable Liquid)
ID NUMBER: UN1230
PACKING GROUP: II
LABEL STATEMENT: Flammable

WATER TRANSPORTATION

PROPER SHIPPING NAME: Flammable Liquid Mixture (Contains Methanol)
HAZARD CLASS: 3 (Flammable Liquid)
ID NUMBER: UN1230
PACKING GROUP: II
LABEL STATEMENT: Flammable

AIR TRANSPORTATION

PROPER SHIPPING NAME: Flammable Liquid Mixture (Contains Methanol)
HAZARD CLASS: 3 (Flammable Liquid)
ID NUMBER: UN1230
PACKING GROUP: II
LABEL STATEMENT: Flammable

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): All ingredients used for the product are listed in TSCA Inventory List.

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): listed - Methanol

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):

311/312 HAZARD CATEGORIES: Acute Health, Chronic Health, Fire

313 REPORTABLE INGREDIENTS: Methanol (cas# 67-56-1)

STATE REGULATIONS: This product contains methanol which is listed in following states that is subject to the state right-to-know regulations: Pennsylvania, New York, New Jersey, Illinois, Massachusetts, Rhode Island

INTERNATIONAL REGULATIONS:

WHMIS Classification: Class B, Division 2, Class D, Division 2, Subdivision A, Division 2, Subdivision B.

SECTION 16: OTHER INFORMATION

OTHER INFORMATION: Hazard Rating:

NFPA: Health:1 Flammability: 3 Reactivity: 0
HMIS: Health:2 Flammability: 3 Reactivity: 0



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PREPARATION INFORMATION: 3/13/2012

DISCLAIMER:

A MSDS such as this cannot be expected to cover all possible individual situations. The end user of this product has the responsibility to provide a safe workplace. All aspects of an individual operation should be examined to determine if, or where, precautions – in addition to those described herein – are required. Any health and safety information contained herein should be passed on to your customers and/or employees.

The opinions expressed herein are those of qualified experts within Pacific Polymers, Inc. We believe that the information contained herein is current as of the date of this Material Safety Data Sheet. Since the use of this information and the use of this product are not within the control of Pacific Polymers, Inc., final determination of suitability of this product is the sole responsibility of the user. It is the responsibility of the user to comply with all applicable Federal, State and Local laws and regulations.