



# MATERIAL SAFETY DATA SHEET

NAME OF PRODUCT SUPERCURE AL

MSDS DATE:3/14/2012

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: SUPERCURE AL  
SYNONYMS: ALIPHATIC TOPCOAT ACCELERATOR  
PRODUCT CODES: SUPERCURE-AL

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 transport:  
INFOTRAC 1-800-535-5053  
CUSTOMER ID: 74919

CHEMICAL NAME: ACCELERATOR FOR TOPCOAT POLYURETHANE  
CHEMICAL FAMILY: AMINE

PRODUCT USE: ACCELERATOR FOR POLYURETHANE BASED TOPCOATS  
PREPARED BY: ER SYSTEMS

## SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS / CAS #	OSHA PEL	ACGIH TLV	OSHA STEL	LD50/LC50	WT %
Polyamine CAS# 54914-37-3	Non established			LD 50 → 4150 mg/kg (Oral, Rat) LD 50 → > 5000 mg/kg (Dermal, Rat)	100%

## SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Caution! Corrosive Liquid. Combustible liquid and vapor. May cause eye irritation. May cause skin burns. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

ROUTES OF ENTRY: Eye, Skin, Inhalation, ingestion.

### POTENTIAL HEALTH EFFECTS

EYES: May irritate eyes and injure eye tissue that can have permanent eye damage.

SKIN: Product is corrosive. May cause burns.

INGESTION: This product has a low order of acute oral toxicity based on animal data.

INHALATION: No information was found regarding effects from inhalation exposure. May cause respiratory tract irritation. Because of its low volatility, exposure to vapors is unlikely. High concentrations of mists may irritate the nose and throat and may cause nausea, headache, dizziness, weakness and fatigue.

## SECTION 4: FIRST AID MEASURES

EYES: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes or until all material has been removed. Keep eye-lids wide open to achieve proper irrigation of the eyes. Get medical attention.

SKIN: Immediately flush skin with copal and water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Destroy or thoroughly clean contaminated shoes before reuse.



## MATERIAL SAFETY DATA SHEET

NAME OF PRODUCT SUPERCURE AL

MSDS DATE:3/14/2012

INGESTION: If swallowed, get medical attention immediately. Induce vomiting only directed by the physician. Never give anything by mouth to an unconscious person.

INHALATION: In inhales, removed person to fresh air. If not breathing, give artificial respiration. Call a doctor immediately.

SECTION 4 Notes: General Advice: Take off all contaminated clothing immediately.

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### SECTION 5: FIRE-FIGHTING MEASURES

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FLAMMABLE LIMITS IN AIR, UPPER: no data  
(% BY VOLUME) LOWER: no data

FLASH POINT: 171°F (77°C) (Method: DIN 51758)

AUTOIGNITION TEMPERATURE: 240°C (Method: DIN 51794)

NFPA HAZARD CLASSIFICATION

HEALTH: 3 FLAMMABILITY: 2 REACTIVITY: 1

HMIS HAZARD CLASSIFICATION

HEALTH: 3 FLAMMABILITY: 2 REACTIVITY: 1

PROTECTION: gloves, goggles/safety glasses, respirator, coveralls/apron

EXTINGUISHING MEDIA: water spray, foam, Carbon Dioxide, dry Powder

SPECIAL FIRE FIGHTING PROCEDURES: Wear self contained MSHS/NIOSH approved positive pressure breathing apparatus and full protective gear to avoid inhalation of fumes, skin and contact.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Combustible liquid. Vapors can travel to a source of ignition and flash back. Explosive mixtures may occur at temperatures at or above the flash point. Autoignition may occur with cotton waste or similar combustible materials.

HAZARDOUS DECOMPOSITION PRODUCTS: Hazardous fumes in fires, Oxides of Nitrogen

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### SECTION 6: ACCIDENTAL RELEASE MEASURES

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ACCIDENTAL RELEASE MEASURES: Use personal protective equipment. Do not contaminate any waterways such as drains, streams, groundwater or soil. Obey laws and regulations as per local, state and/or federal. Protect from moisture.

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### SECTION 7: HANDLING AND STORAGE

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HANDLING AND STORAGE: Avoid contact with skin, eyes, and clothing. Avoid breathing vapors and mists. Use with adequate ventilation. Read MSDS/label before the container is opened and used. Keep containers tightly closed and away from high temperature conditions such as heat, sunlight, flame etc. Do not contaminate with water.

OTHER PRECAUTIONS: Follow proper hygienic practices after using the product. Wash before eating, drinking and/or using a restroom. DO not smoke.

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### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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ENGINEERING CONTROLS: Use with adequate ventilation to avoid build-up of vapors and aerosols. Use explosion proof ventilation equipment.

RESPIRATORY PROTECTION: Under normal use, an MSHA/NIOSH approved organic vapor or charcoal filtered cartridge respirator may be enough. If required one can use positive pressure supplied air respirator with full face piece or an air-supplied hood.

EYE PROTECTION: Chemical splash goggles and/or face shield.



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NAME OF PRODUCT SUPERCURE AL

MSDS DATE:3/14/2012

SKIN PROTECTION: Use impermeable gloves. Precaution should be taken to ensure that material does not get inside the gloves. If contact with liquid is possible, wear impervious clothing. Showering after using the product is recommended.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: A safety shower and eye wash station should be considered and be readily available in case of contact. Keep away from children, pets and pregnant mothers.

WORK HYGIENIC PRACTICES: Avoid skin and eye contact. Remove contaminated clothing and wash before reuse. Wash contact area to avoid any burns. Wash before eating, drinking, and/or using restroom. Do not smoke.

EXPOSURE GUIDELINES: no data.

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### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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APPEARANCE: Clear to yellowish

ODOR: amine-like odor

PHYSICAL STATE: Liquid

pH AS SUPPLIED: 5 – 6 (as tested using litmus paper)

BOILING POINT: 302°C

FREEZING POINT: do not freeze

VAPOR PRESSURE (mmHg): 0.5 hPa (100°C)

VAPOR DENSITY (AIR = 1): no data

SPECIFIC GRAVITY (H<sub>2</sub>O = 1): 0.86 – 0.88

EVAPORATION RATE: less than 1

SOLUBILITY IN WATER: hardly soluble, will react slowly with water

PERCENT SOLIDS BY WEIGHT: 100%

PERCENT VOLATILE: solvent free

VISCOSITY: < 500 cps

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### SECTION 10: STABILITY AND REACTIVITY

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STABILITY: Stable under normal conditions.

CONDITIONS TO AVOID (STABILITY): avoid high temperatures.

INCOMPATIBILITY (MATERIAL TO AVOID): humidity, water, will react slowly with water, oxidizing agents, combustible materials such cotton waste etc.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: decomposition products from hydrolysis in water ( amine such as isophorone diamine, isobutyraldehyde)

HAZARDOUS POLYMERIZATION: None known

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### SECTION 11: TOXICOLOGICAL INFORMATION

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TOXICOLOGICAL INFORMATION:

Acute Oral Toxicity: LD50 (rat): 4150 mg/kg

Acute Dermal Toxicity LD50 (rat): > 5000 mg/kg

Skin Irritation: Corrosive

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### SECTION 12: ECOLOGICAL INFORMATION

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ECOLOGICAL INFORMATION:

Biodegradability: 42% (method EC 88/302; related to isophorone diamine)

Not readily biodegradable: 8% (method EC79/831; related to isophorone diamine)

Readily biodegradable : 96% (method: OECD 301E; related to isobutyraldehyde)



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MSDS DATE:3/14/2012

## Ecotoxicity Effects:

Toxicity to fish: LC50 Brachydanio rerio: 110mg/l per 96hrs (method: EC84/449) (related to substance: isophorone diamine)  
LC50 Leuciscus idus melanotus: 86 mg/l per 24 hrs (method: DIN 38412 Teil 15 (related to substance: isobutyraldehyde)  
Toxicity to Daphnia: EC50 Daphnia Magna: 23 mg/l/48hrs (method:OECD TG202)( related to substance: isophorone Diamine)  
: EC50 Daphnia Magna: 84 mg/l/48hrs ( related to substance: isobutyraldehyde)  
Toxicity to Algae: EC50 scenedesmus subspicatus: 37 mg/l/72hrs (method:EC88/302)( related to substance: isophorone Diamine)  
EC50 scenedesmus subspicatus: 84 mg/l/72hrs ( related to substance: isobutyraldehyde)

SECTION 12 NOTES: data obtained from raw material MSDS

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## SECTION 13: DISPOSAL CONSIDERATIONS

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WASTE DISPOSAL METHOD: Dispose waste in accordance with federal, State and local laws and regulations. Incineration may be the preferred method. Empty containers must be handled with care due to product residue. Do not heat or cut the empty containers with electric or gas torch.

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## SECTION 14: TRANSPORT INFORMATION

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### U.S. DEPARTMENT OF TRANSPORTATION (road/rail)

PROPER SHIPPING NAME: Amines, Liquid, Corrosive, N.O.S. (Blocked Amine)  
HAZARD CLASS: 8  
ID NUMBER: UN 2735  
PACKING GROUP: III  
LABEL STATEMENT: Corrosive

### WATER TRANSPORTATION (IMDG Code)

PROPER SHIPPING NAME: Amines, Liquid, Corrosive, N.O.S. (Blocked Amine)  
HAZARD CLASS: 8  
ID NUMBER: UN 2735  
PACKING GROUP: III  
LABEL STATEMENT: Corrosive

### AIR TRANSPORTATION (IATA)

PROPER SHIPPING NAME: Amines, Liquid, Corrosive, N.O.S. (Blocked Amine)  
HAZARD CLASS: 8  
ID NUMBER: UN 2735  
PACKING GROUP: III  
LABEL STATEMENT: Corrosive

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## SECTION 15: REGULATORY INFORMATION

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### U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): Listed with TSCA

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): none known

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):

311/312 HAZARD CATEGORIES: Fire hazard, acute hazard

313 REPORTABLE INGREDIENTS: none known

Classified Hazardous as per OSHA regulation

STATE REGULATIONS: not listed in California Proposition 65 list

### INTERNATIONAL REGULATIONS:

Listed/registered as per raw material MSDS in:  
Europe (EINECS/ELINCS)



## MATERIAL SAFETY DATA SHEET

NAME OF PRODUCT SUPERCURE AL  
USA (TSCA)  
Australia (AICS)  
Philippines (PICCS)  
China

MSDS DATE:3/14/2012

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### SECTION 16: OTHER INFORMATION

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OTHER INFORMATION:

WHMIS: Class E, Class B, Division 3

PREPARATION INFORMATION: 3/14./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. 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 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.*