

# MATERIAL SAFETY DATA SHEET

**PRODUCT NAME:** VINYL ESTER CATALYST

**HMIS CODES:** H F R P  
2 1 B 2

**PRODUCT CODE:** ACIVC

-----**SECTION I – MANUFACTURER IDENTIFICATION**-----

**MANUFACTURER'S NAME:** ADMIRALTY COATINGS INC.

**ADDRESS:** PO BOX 8488 CHULA VISTA, CA 91912

**EMERGENCY PHONE:** 619 207 7778

**INFORMATION PHONE:** 619 240 8535

**DATE REVISED:** 10/30/08

**NAME OF PERPARER:** GRD

## SYNOPSIS

This material is considered non-toxic, non-flammable and contains no materials that require reporting under TSCA. It contains no volatile organic compounds (VOCs). It will not cause cancer or birth defects in unborn children. It is classified as an irritant. This means that it may cause mild respiratory or skin reactions in sensitive individuals. It should not be used in a closed area without ventilation, as vapors will not dissipate readily. **It should always be handled with gloves** and it is advisable to apply a barrier cream before putting on the gloves. **It should always be used with eye protection**, as any material splashed or introduced into the eye will cause burning and irritation. After using it, you should always wash your hands before eating or drinking. It should not be allowed to contact clothing or shoes, as it may cause skin irritation that will go unnoticed for some time. It is advisable to wear a lab coat or apron to cover street clothes, or to change clothes before leaving work.

-----**SECTION II – HAZARDOUS INGREDIENTS/SARA III INFORMATION**-----

HAZARDOUS COMPONENTS	CAS NUMBER	OCCUPATIONAL EXPOSURE LIMITS				VAPOR PRESSURE mm hG @ TEMP	WEIGHT PERCENT
		OSHA PEL	ACGIH	TLV	OTHER		
URATHANE RESINS	PROPRIETARY					50 – 90%	
MONOMERS	PROPRIETARY					5 – 40%	
PHOTO INITIATORS	PROPRIETARY					< 8%	

\*\*\*No toxic chemicals subject to the reporting requirements of Section 313 of Title III and of 40 CFR 372 are present\*\*\*

NO ADDITIONAL INFORMATION APPLICABLE.

-----**SECTION III – PHYSICAL/CHEMICAL CHARACTERISTICS**-----

**BOILING POINT:** >200°F

**SPECIFIC GRAVITY:** (H<sub>2</sub>O)=1: 1.01

**VAPOR DENSITY:** N/A

**EVAPORATION RATE:** N/A

**SOLUBILITY IN WATER:** NOT SOLUBLE IN WATER

**APPEARANCE AND ODOR:** CLEAR LIQUID, RESINOUS ODOR

-----**SECTION IV – FIRE AND EXPLOSION HAZARD DATA**-----

**FLASH POINT:** >200°F

**METHOD USED:** SETAFLASH

**FLAMMABLE LIMITS IN AIR BY VOLUME – LOWER:** N/A

**UPPER:** N/A

**EXTINGUISHING MEDIA:** FOAM, CO<sub>2</sub>, DRY CHEMICAL, WATER FOG

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### **SPECIAL FIRE FIGHTING PROCEDURES:**

REMOVE ALL IGNITION SOURCES. WEAR SELF CONTAINED BREATHING APPARATUS AND COMPLETE PERSONAL PROTECTIVE EQUIPMENT. FIGHT FIRE FROM SAFE DISTANCE. USE WATER SPRAY.FOG FOR COOLING. AVOID FROTHING/STEAM EXPLOSION.

### **UNUSUAL FIRE AND EXPLOSION HAZARDS:**

HIGH TEMPERATURES AND FIRE CONDITIONS MAY CAUSE RAPID AND UNCONTROLLED POLYMERIZATION WHICH CAN RESULT IN THE RUPTURE OF STORAGE VESSELS OR CONTAINERS. AVOID THE USE OF A STREAM OF WATER TO CONTROL FIRES SINCE FROTHING CAN OCCUR. THERMAL DECOMPOSITION CAN LEAD TO THE EVOLUTION OF IRRITANT VAPORS OR GASES AND/OR FIRES.

## -----SECTION V – REACTIVITY DATA-----

**STABILITY:** UNSTABLE

### **CONDITIONS TO AVOID:**

HEAT; OPEN FLAME; LIGHT; RADIATION; INERT GAS BLANKETING; CONTAMINATION WITH INCOMPATIBLE MATERIALS.

### **HAZARDOUS DECOMPOSITION OR BYPRODUCTS:**

FUMES PRODUCED WHEN HEATED MAY INCLUDE BUT ARE NOT LIMITED TO: CARBON MONOXIDE, CARBON DIOXIDE AND OXIDES OF NITROGEN.

### **HAZARDOUS POLYMERIZATION: MAY OCCUR**

EXOTHERMIC WITH THE EVOLUTION OF IRRITANT FUMES.

## -----SECTION VI – HEALTH HAZARD DATA-----

### **INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE:**

SPECIFIC INFO UNAVAILABLE, HOWEVER HEATING MAY GENERATE VAPORS THAT MAY CAUSE HEADACHES, NAUSEA, DIZZINESS, AND RESPIRATORY IRRITATION IF INHALED.

### **SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE:**

MAY CAUSE MODERATE SKIN INJURY (REDDENING AND SWELLING) AND/OR SENSITIZATION. PROLONGED CONTACT MAY CAUSE BLISTER FORMATION (BURNS). IRRITATION MAY NOT OCCUR IMMEDIATELY – CONTACT CAN GO UNNOTICED.

### **SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE:**

EFFECTS CAN BE DELAYED UP TO 48 HOURS.

### **INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE:**

IF APPRECIABLE QUANTITIES ARE SWALLOWED, SEEK MEDICAL ATTENTION.

### **HEALTH HAZARDS (ACCUTE AND CHRONIC):**

ACCUTE – MAY BE FATAL IF INHALED, SWALLOWED OR ABSORBED THROUGH THE SKIN. TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL AND TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

CHRONIC – MAY CAUSE SENSITIZATION IN SOME INDIVIDUALS.

**CARCINOGENICITY: NTP? NO      IARC MONOGRAPHS? NO      OSHA REGULATED? NO**

### **MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:**

ASTHMA, DERMATITIS

### **EMERGENCY CONDITIONS AND FIRST AID PROCEDURES:**

EYE CONTACT – FLUSH WITH PLENTY OF WATER >15 MINUTES. SKIN CONTACT – REMOVE CONTAMINATED CLOTHING AND WASH WITH SOAP AND WATER FOR >15 MINUTES. PARTICULAR ATTENTION SHOULD BE PAID TO HAIR, NOSE, EARS AND OTHER AREAS NOT EASILY CLEANED. SEE SPECIAL PRECAUTIONS – EFFECTS CAN BE DELAYED 24-48 HOURS. INGESTION – IF APPRECIABLE QUANTITIES ARE SWALLOWED, SEEK MEDICAL ATTENTION. INHALATION – IN CASE OF EXPOSURE TO HIGH CONCENTRATION OF VAPOR OR MIST, REMOVE PERSON TO FRESH AIR. IF BREATHING HAS STOPPED, ADMINISTER ARTIFICIAL RESPIRATION AND SEEK MEDICAL ATTENTION.

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### -----SECTION VII – PRECAUTIONS FOR SAFE HANDLING AND USE-----

#### **STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:**

EVACUATE AREA. ELIMINATE IGNITION SOURCES. USE SKIN AND EYE PROTECTION. PLACE LEAKING CONTAINERS IN A WELL VENTILATED AREA. ABSORB WITH INERT MATERIAL AND DISPOSE. FLUSH AREA WITH WATER; PREVENT WASHINGS FROM ENTERING WATERWAYS.

#### **WASTE DISPOSAL METHOD:**

INCINERATE OR USE BIOLOGICAL TREATMENT IN ACCORDANCE WITH FEDERAL, STATE, LOCAL AND ENVIRONMENTAL REGULATIONS.

#### **PRECAUTIONS TO BE TAKEN IN STORAGE AND HANDLING:**

CHEMICAL SAFETY GOGGLES. RUBBER GLOVES. NIOSH/MSHA-APPROVED RESPIRATOR. SAFETY SHOWER AND EYE BATH. EXHAUSE REQUIRED. AVOID INHALATION. DO NOT GET IN EYES, ON SKIN, OR CLOTHING. AVOID PROLONGED OR REPEATED EXPOSURE. WASH THOROUGHLY AFTER HANDLING. TOXIC. IRRITANT. POSSIBLE TETRAOGEN. NEUROLOGICAL HAZARD. TIGHTLY CLOSE. AIR SENSITIVE. STORE IN COOL ENVIRONMENT.

#### **OTHER PRECAUTIONS:**

STORE IN COOL DRY PLACE. AVOID IGNITION SOURCES. KEEP CONTAINERS CLOSED. DISSOLVED AIR IS REQUIRED FOR INHIBITOR TO FUNCTION. TO PREVENT LOSS OF INHIBITOR DO NOT BLANKET OR SPARGE WITH NITROGEN. STORE SAMPLE IN OPAQUE/AMBER GLASS CONTAINERS. MATERIAL MAY SOLODIFY UNDER LOW TEMPERATURES. STEAM OR CHEMICAL HEATING SYSTEMS, WHICH GENERATE LOCALIZED HOT SPOTS, SHOULD NEVER BE USED TO MELT THIS PRODUCT. REMOVE ALL CONTAMINATED CLOTHES, SHOES, BELTS, AND LEATHER GOODS IMMEDIATELY. INCINERATE LEATHER GOODS. SOLVENTS SHOULD NOT BE USED TO CLEAN SKIN BECAUSE OF INCREASED PENETRATION POTENTIAL.

### -----SECTION VIII – CONTROL MEASURES-----

#### **RESPIRATORY PROTECTION:**

WHEN EXPOSED TO AEROSOLS OR VAPORS, USE FULL FACE NIOSH/MSHA APPROVED RESPIRATOR WITH PARTICULATE PRE-FILTER. IN EMERGENCY SITUATIONS, OR WHEN USED IN CONFINED SPACES, USE SELF-CONTAINED BREATHING APPARATUS OR OTHER AIR SUPPLIED FULL FACE RESPIRATOR. USE MANUFACTURER'S RECOMMENDATIONS WHERE APPLICABLE.

#### **VENTILATION:**

LOCAL EXHAUST – RECOMMENDED TO CONTROL EXPOSURE WHICH MAY RESULT FROM OPERATION SGENERATING AEROSOLS AND HOT OPERATIONS GENERATING VAPORS.  
MECHANICAL – NOT RECOMMENDED TO CONTROL EXPOSURE GENERATING AEROSOL OR VAPORS.

#### **PROTECTIVE GLOVES:**

IMPERVIOUS GLOVES (NEOPRENE). A COMBINATION OF BARRIER CREAM APPLIED BEFORE EXPOSURE AND GLOVES IS RECOMMENDED.

#### **EYE PROTECTION:**

CHEMICAL SPLASH GOGGLES.

#### **OTHER PROTECTIVE CLOTHING OR EQUIPMENT:**

FOR OPERATIONS WHERE CONTACT CAN OCCUR, USE A FACE SHIELD, IMPERVIOUS BODY COVERING, AND BOOTS. A SAFETY SHOWER AND EYE WASH FACILITY SHOULD BE AVAILABLE. FOR ROUTINE LABORATORY OPERATIONS, AN IMPERVIOUS APRON AND GLOVES ARE RECOMMENDED.

#### **WORKING/HYGIENIC PRACTICES:**

WASH GLOVES FREQUENTLY WITH SOAP & WATER. AVOID TOUGHING EXPOSED SKIN AREAS WITH GLOVED HANDS. AVOID CONTACT LENSES.

### -----SECTION IX – DISCLAIMER-----

#### **DISCLAIMER:**

SOME OF THE INFORMATION PRESENTED AND CONCLUDED HEREIN IS FROM SOURCES OTHER THAN DIRECT TEST DATA ON THE PRODUCT. SOME INFORMATION WAS OBTAINED FROM SOURCES WHICH WE BELIEVE ARE RELIABLE, HOWEVER IT IS PROVIDED WITHOUT WARRANTY. THE CONDITIONS OR METHODS OR HANDLING, SOTRAGE, USE AND DISPOSAL OF THE PRODUCT ARE BEYOND OUR CONTROL AND WE ASSUME NO RESPONSIBILITY.