



0=Minimal, 1=Slight, 2= Moderate, 3=Serious, 4=Sever

MATERIAL SAFETY DATA SHEET

SECTION 1- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: ACU-FLEX:100
Product Composition/ Use: Single component moisture cure silicone roof coating
CAS Number: Mixture
Manufacturer Name: Advanced Coating Systems, Inc.
Street Address: 2230 Towne Lake Pkwy, Bldg.1000 Ste.150
City: Woodstock State: GA Zip Code: 30189
Emergency Telephone: INFOTRAC 24hrs, (800)535-5053

SECTION 2- COMPOSITION AND INFORMATION ON INGREDIENTS

Components	Cas No.	% by Wt
Silanol Terminated Polydimethylsiloxane	70131-67-8	40% to 45%
Crystalline Sodium Potassium Aluminosilicate	14808-60-7	30% to 35%
Polydimethylsiloxane, Dihydroxy Terminated	70131-67-8	10% to 15%
Titanic Anhydride	13463-67-7 / 21645-51-2 / 7631-86-9	5% to 10%
N-[3-(Trimethoxysilyl)propyl]ethylenediamine	1760-24-3 / 67-56-1	0% to 5%

SECTION 3- HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW
PHYSICAL APPEARANCE : Colored liquid
IMMEDIATE CONCERNS : None
POTENTIAL HEALTH EFFECTS
EYES : May cause eye irritation
SKIN : May cause skin irritation
SKIN ABSORPTION : Causes skin irritation.
INGESTION : Harmful if swallowed.
INHALATION : Harmful if inhaled.
CHRONIC : Prolonged or repeated skin contact may cause dryness, defatting, and dermatitis.
CARCINOGENICITY : The ingredients of this product are known to the state of California to be carcinogenic. The ingredients of this product are not classified as carcinogenic by ACGIH or IARC, not regulated as carcinogens by OSHA, and not listed as carcinogens by NTP. No significant exposure to any ingredient is thought to occur during the use in which the ingredients are bound to other materials in the liquid state as in paints and coatings
MUTAGENICITY : There is no substantial evidence of mutagenic potential.
REPRODUCTIVE TOXITY
REPRODUCTIVE EFFECTS : Not Applicable
TERATOGENIC EFFECTS : Not Applicable
IRRITANCY: Not Applicable
CLASSIFICATION : Not Applicable
SIGNAL WORD : Warning
HAZARD STATEMENTS : Harmful if swallowed.
PRECAUTIONARY STATEMENTS : Use personal protective equipment as required.

SECTION 4- FIRST-AID MEASURES

EYES : In case of contact, flush eyes with large amounts of running water for at least 15 min. Hold eyelids apart to ensure rinsing of the entire surface of the eye and lids with water. Get medical attention
SKIN : Remove as much of the material as possible using mechanical/waterless methods before washing with water. Seek medical attention for any burns or irritation resulting from contact with cure by-products

Section 4 – First Aid Measures continued

INGESTION : Never give an unconscious person anything to drink. If unconscious, treat for shock. Notify a physician or the nearest poison control center immediately. If conscious, have the person rinse his mouth with cold water. Do not attempt to induce vomiting (vomiting may occur naturally, but should be avoided if possible). If unconscious and vomiting, turn the person to his side to avoid choking.

INHALATION : If inhaled, remove to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Get medical attention.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

SYMPTOMS : Not Applicable

EFFECTS : Not Applicable

NOTES TO PHYSICIAN : Not Applicable

SECTION 5- FIRE AND EXPLOSION HAZARDS

SUITABLE EXTINGUISHING MEDIA : Use foam, dry chemical, CO₂, or water.

FIRE FIGHTING PROCEDURES : As appropriate for surrounding materials/equipment. If electrical equipment is involved, the use of foam should be avoided. Use water spray to cool non-involved containers.

UNUSUAL FIRE AND EXPLOSION HAZARD : There are no known unusual fire or explosion hazards.

COMBUSTION PRODUCTS : Carbon monoxide, carbon dioxide, nitrogen oxides

SECTION 6- ACCIDENTAL RELEASE MEASURES

SMALL SPILL : Remove all sources of ignition. Ventilate area. Absorb spill with absorbent material such as sawdust, vermiculite or sand, and place in a closed container. In case of large spill, dike the area to prevent this material from entering water systems or sewers.

LARGE SPILL : For major spills call Chemtrec (800-424-9300).

ENVIRONMENTAL PRECAUTIONS

WATER SPILL : Not Applicable

LAND SPILL : Not Applicable

PERSONAL PRECAUTIONS : Wear protective gloves/protective clothing/eye protection/face protection.

PROTECTIVE EQUIPMENT : Not Applicable

EMERGENCY PRECAUTIONS : Not Applicable

METHOD OF CLEANING UP : Collect spillage.

SECTION 7- HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING : Avoid breathing aerosols, spray mists and heated vapors. Avoid prolonged or repeated skin contact.

CONDITIONS FOR SAFE STORAGE, INCLUDING INCOMPATIBILITIES : Keep containers properly sealed when stored indoors, in a cool well-ventilated area. Keep contents away from moisture. Keep away from heat, sparks and open flame. As standard practice, never use welding or cutting torch on or near any container (even empty) as an explosion may occur. Care should be taken to prevent moisture condensation in the container. Avoid storage above 100°F.

SECTION 8- EXPOSURE CONTROLS AND PERSONAL PROTECTION

OSHA TABLE COMMENTS:

NL = Not Listed

EXPOSURE LIMITS : Not Applicable

ENGINEERING CONTROLS : Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV(s). General ventilation is recommended. Additional local exhaust ventilation is recommended where vapors, mists, or aerosols may be released.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE : Wear protective eyeglasses or chemical safety goggles, per OSHA eye and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protection devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

SKIN : Wear chemical resistant gloves. Wear protective clothing to prevent skin contact. Keep exposed skin area to a minimum. Eye wash station and safety shower should be available.

RESPIRATORY : If exposure can exceed the PEL/TLV, use only NIOSH/MSHA approved air purifying or supplied air respirator operated in a positive pressure mode per the NIOSH/OSHA occupational health guidelines for chemical hazards. If it is possible to generate significant levels of vapors or mists, a NIOSH approved or equivalent respirator is recommended.

WORK HYGIENIC PRACTICES : Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Promptly remove soiled clothing and wash thoroughly before reuse. Shower after work, using plenty of soap and water. Open containers of food and beverages should be kept away from areas where the product is used or stored.

Eating, drinking, smoking and application of cosmetics should be prohibited in areas where the product is being used.

OTHER USE PRECAUTIONS : Conditions of use, adequacy of engineering or other control measures, and actual exposures will dictate the need for specific protective devices at your workplace.

COMMENTS : Not Applicable

SECTION 9- PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE : Viscous liquid
COLOR : White, Gray, Tan, ect.
ODOUR : Slight sweet smell
ODOUR THRESHOLD : Not Applicable
pH : Not Applicable
MELTING POINT : Not Applicable
BOILING POINT : 310 - 385°F
FLASH POINT AND METHOD : >290°F (COC) ASTM D-92
EVAPORATION RATE : Slower than ether
FLAMMABILITY(Solid/Gas) : Not Applicable
FLAMMABLE LIMITS : Not Applicable TO Not Applicable
VAPOUR PRESSURE : Not Determined
VAPOUR DENSITY : Heavier than air
SPECIFIC GRAVITY : Not Applicable
% SOLUBILITY IN WATER :
OCTANOL/WATER PARTITION COEFFICIENT : Not Applicable
AUTO-IGNITION TEMPERATURE : Not Applicable
DECOMPOSITION TEMPERATURE : Not Applicable
POUR POINT : Not Applicable
MOLECULAR FORMULA :
% VOLATILE : Not Applicable
VISCOSITY : Not Applicable
VOC: <50 Grams/Liter EPA Method 24

SECTION 10- STABILITY AND REACTIVITY

STABLE : Not Applicable
HAZARDOUS POLYMERIZATION : Will not occur.
CONDITIONS TO AVOID : Keep away from heat, sparks, or flames
STABILITY : This is a stable product.
POLYMERIZATION : Not Applicable
HAZARDOUS DECOMPOSITION PRODUCTS: By high heat or fire: Carbon Monoxide, Oxides of Nitrogen and various hydrocarbon fragments.
INCOMPATIBLE MATERIALS : Avoid strong oxidizing agents, concentrated nitric and sulfuric acids, halogen, and molten sulfur.
POSSIBILITY OF HAZARDOUS REACTIONS : Not Applicable

SECTION 11- TOXICOLOGICAL INFORMATION

SIGNS AND SYMPTOMS OF OVEREXPOSURE : Dizziness and shortness of breath.
ACUTE EFFECTS :
EYE : Exposure to liquid or vapor causes eye irritation. Symptoms may include stinging, tearing, and swelling.
SKIN : Exposure causes skin irritation. Prolonged or repeated exposure may dry the skin. Symptoms may include redness, burning, drying and cracking. Skin absorption is possible, but harmful effects are not expected from this route of exposure under normal conditions of handling and use.
INHALATION : Short-term inhalation toxicity is low. Breathing small amounts during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful.
Symptoms are more likely seen at air concentrations exceeding the recommended exposure limits. Symptoms of exposure may include: Irritation (nose, throat, and respiratory tract), metallic taste in mouth, impaired coordination, confusion, CNS depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, and unconsciousness).
INGESTION : Single dose or oral toxicity is low. Swallowing small amounts during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful.
Symptoms may include: Gastrointestinal irritation (nausea, vomiting, and diarrhea) and possible liver damage. This material can enter the lungs during swallowing or vomiting and cause lung inflammation and/or damage.
TARGET ORGAN : Not Applicable
CHRONIC EFFECTS : Prolonged or repeated skin contact may cause dryness, defatting, and dermatitis.
ACUTE TOXICITY VALUES : Not Applicable
SYMPTOMS OF RELATED
PHYSICAL : Not Applicable
CHEMICAL : Not Applicable
TOXICOLOGICAL CHARACTERISTICS : Not Applicable
DELAYED AND IMMEDIATE EFFECTS : Not Applicable

SECTION 12- ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: Not Applicable
PERSISTENCE AND DEGRADABILITY : Not Applicable

Section 12 – Ecological Information continued

BIO-ACCUMULATIVE POTENTIAL : Not Applicable
MOBILITY : Not Applicable

SECTION 13- DISPOSAL CONSIDERATIONS

WASTE TREATMENT METHODS

DISPOSAL METHOD: This product has been tested and found to have a flash point above 290°F . If discarded in liquid form, this product may be treated as hazardous waste based on the characteristic of ignitability as defined under the federal RCRA regulations (40 CFR261).

For further, information contact your state or local solid waste agency or the United States Environmental Protection Agency's RCRA hotline (1-800-434-9300 or 202-382-3000). Chemical waste, even small quantities should never be poured down drains, sewers or waterways. Empty containers should be decontaminated and either passed to an approved drum recycler or destroyed.

EMPTY CONTAINER : Not Applicable

SECTION 14- TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

TECHNICAL NAME : Not Applicable

UN NUMBER : Not Applicable

UN PROPER SHIPPING NAME : Not Applicable

TRANSPORT HAZARD CLASS : Not Applicable

PACKING GROUP : Not Applicable

MARINE POLLUTANT : Not Applicable

SPECIAL PRECAUTIONS : Not Applicable

SECTION 14- REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES: Not Applicable

FIRE : No **PRESSURE GENERATING** : No

REACTIVITY : No **ACUTE** : Yes **CHRONIC** : Yes

313 REPORTABLE INGREDIENTS: Reportable Component

<u>Reportable Component</u>	<u>CAS No</u>	<u>Weight % (+ 2%)</u>	
Crystalline Silica	14808-60-7	31	(as respirable dust only, not while in liquid form)

302/304 EMERGENCY PLANNING

EMERGENCY PLAN: Not Applicable

OTHER REGULATION : Not Applicable

SECTION 15- OTHER INFORMATION

Glossary: ACGIH- American Conference of Governmental Industrial Hygienist

IARC- International Agency for Research on Cancer

MSHA- Mine Safety and Health Administration

NIOSH- National Institute for Occupational Safety and Health

NTP- National Toxicology Program

OSHA- Occupational Safety and Health Administration

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End of Material Safety Data Sheet