



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

# **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 Phone: (678)445-0040

Emergency Telephone: INFOTRAC 24hrs, (800)535-5053

# **SECTION 2- HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW** 

PHYSICAL APPEARANCE: Viscous liquid

**IMMEDIATE CONCERNS**: Use as directed – For Industrial Use Only

POTENTIAL HEALTH EFFECTS

EYES: May cause eye irritation.
SKIN: May cause skin irritation.
SKIN ABSORPTION: None.
INGESTION: Harmful if swallowed.

INHALATION: N/A CHRONIC: None.

**CARCINOGENICITY:** Contains crystalline silica.

MUTAGENICITY: None.

REPRODUCTIVE TOXITY

**REPRODUCTIVE EFFECTS:** None **TERATOGENIC EFFECTS:** None

IRRITANCY: None

GHS CLASSIFICATION:

**Eye irritation:** Category 2 **Carcinogen:** Category 1

# PICTOGRAMS





SIGNAL WORD: Warning

# **HAZARD STATEMENTS:**

May cause cancer (crystalline silica is a known carcinogen if inhaled).

Causes eye irritation. Harmful to aquatic life.

#### PRECAUTIONAL STATEMENTS:

Keep container tightly closed.

Keep away from heat/sparks/open flame - No Smoking.

Wear protective gloves and eye/ face protection.

Ground/ bold container and receiving equipment.

For industrial and industrial use only – for outside use only

Store in cool/ sell-ventilated place

Avoid release to the environment

Avoid activities (sanding, crushing) of finished product that can produce airborne fibers.

# SECTION 3- COMPOSITION AND INFORMATION ON INGREDIENTS\*

Components	Cas No.	% by Wt
Crystalline Silica **	14808-60-7	30 to 35
Titanium Dioxide **	13463-67-4	5 to 10
Pigment Dispersions (as carbon black**)	1333-86-4	<0.5
Methyl Oximino Silane	22984-54-9	<7

<sup>\*</sup>The specific chemical identity and exact percentages (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of § 1910.1200.

# **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**: Wash contaminated area with soap and water. Remove contaminated clothing and wash before reuse. If irritation develops, get medical attention.

**INGESTION**: If swallowed, DO NOT induce vomiting. Seek immediate medical attention.

**INHALATION**: Remove person to fresh air. If respiratory irritation, dizziness, nausea, or unconsciousness, see immediate medical assistance. If breathing has stopped, give artificial respiration.

# MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

**SYMPTOMS**: Not Applicable **EFFECTS**: Not Applicable

NOTES TO PHYSICIAN: Not Applicable

<sup>\*\*</sup> These materials are bound in liquid/ paint and are not airborne or in dust form.

<sup>\*\* &</sup>quot;WARNING: THIS PRODUCT CONTAINS CHEMICALS KNOW TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM"

### SECTION 5- FIRE AND EXPLOSION HAZARDS

SUITABLE EXTINGUISHING MEDIA: Foam, extinguishing power, carbon dioxide, water fog. In case of fire, cool endangered containers with water fog.

**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**: By high heat or fire: Carbon monoxide, carbon dioxide, nitrogen oxide, and oxides of silicone and various hydrocarbon fragments.

#### 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: In case of large spill, dike the area to prevent the material from entering water system or sewers. For major spills, call Infotrac (800-535-5053).

**ENVIRONMENTAL PRECAUTIONS** 

WATER SPILL: For major spills, call Infotrac (800-535-5053).able

LAND SPILL: For major spills, call Infotrac (800-535-5053).

PERSONAL PRECAUTIONS: Don not eat, drink or smoke while cleaning up. Ensure adequate ventilation.

PROTECTIVE EQUIPMENT: Wear protective gloves/protective clothing/eye protection/face protection.

**EMERGENCY PRECAUTIONS:** Not Applicable

METHOD OF CLEANING UP: Absorb on liquid-absorbing material (treated sawdust, diatomaceous earth, sand). Shovel up and dispose of at the approporate waste facility in accordance with current applicable laws and regulations, and product characteristics at time of disposal.

# **SECTION 7- HANDLING AND STORAGE**

**PRECAUTIONS FOR SAFE HANDLING:** Avoid contact with eyes. Avoid skin contact and breathing mists/vapors. Use in well-ventilated area away from all ignition sources. Switch off all electrical devices such as parabolic heaters, hotplates, storage heaters etc. in good time for them to have cooled down before commencing work. Do not smoke; do not weld. Do not empty waste into sanitary drains. Take measures to prevent the buildup of electrostatic charge.

**CONDITIONS FOR SAFE STORAGE, INCLUDING INCOMPATIBILITIES:** Storage containers must be grounded and bonded. Store away from all ignition sources in a cool area equipped with an automatic sprinkling system. Ensure adequate ventilation. **Shelf Life 1 Year** when stored (Unopened Containers) at temperatures between +2°C to +30°C (35°F to 85°F) - Store only in the original container..

# SECTION 8- EXPOSURE CONTROLS AND PERSONAL PROTECTION

#### OSHA TABLE COMMENTS:

Crystalline Silica - OSHA - Final PELs - Table Z-3 Mineral Dusts

Titanium dioxide - 15 mg/m3 TWA (total dust) U.S. - OSHA - Final PELs - Time Weighted

Averages (TWAs)

**EXPOSURE LIMITS**: Not Applica U.S. - OSHA - Final PELs - Table Z-3 Mineral Dusts Quartz (30)/(%SiO2 + 2) mg/m3 TWA, total dust; (250)/(%SiO2 + 5) mppcf TWA, respirable fraction; (10)/(%SiO2 + 2) mg/m3 TWA, respirable fraction. Titanium dioxide - 15 mg/m3 TWA (total dust).

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 laerosols 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 :** For Industrial Use Only – Use only as directed.

**COMMENTS:** Avoid sanding or other activities that may produce airborne fibers from finished product.

#### SECTION 9- PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE : Viscous liquid COLOR : White, Lt. Grey, Grey, or Tan

ODOUR: Slight sweet smell
ODOUR THRESHOLD: Not Applicable

pH: Not Applicable

MELTING POINT : Not Applicable
BOILING POINT : Not Applicable

**FLASH POINT AND METHOD**: >290°F (COC) ASTM D-92

EVAPORATION RATE: Slower than ether FLAMMABILITY(Solid/Gas): Not Applicable FLAMMABLE LIMITS: Not Applicable VAPOUR PRESSURE: Not Determined VAPOUR DENSITY: Heavier than air SPECIFIC GRAVITY: Average 1.26 to 1.30 % SOLUBILITY IN WATER: Negligible

OCTANOL/WATER PARTITION COEFFICIENT: Not Applicable

AUTO-IGNITION TEMPERATURE: Not Applicable DECOMPOSITION TEMPERATURE: Not Applicable

**POUR POINT :** Not Applicable **MOLECULAR FORMULA :** 

% VOLATILE: <50 Grams/Liter EPA Method 24

VISCOSITY: Not Applicable

MOLECULAR WEIGHT: Not Applicable

# SECTION 10- STABILITY AND REACTIVITY

STABLE: Stable

**HAZARDOUS POLYMERIZATION:** Will not occur.

**CONDITIONS TO AVOID**: Keep away from heat, sparks, or flames **STABILITY**: Sable under normal conditions of use and storage.

**POLYMERIZATION:** Will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS: By high heat or fire: Carbon Monoxide, Oxides of Nitrogen and various

hydrocarbon fragments.

INCOMPATIBLE MATERIALS: Avoidwater, strong oxidizing agents, concentrated nitric and sulfuric acids, halogen, and molten sulfur.

POSSIBILITY OF HAZARDOUS REACTIONS: Does not occur.

# 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:** Crystalline Silica: IARC - Group 1 (Carcinogenic to Humans) Silica, quartz Monograph 100C [2012] (listed under Crystalline silica inhaled in the form of quartz or cristobalite from occupational sources); Monograph 68 [1997]

Product evolves methyl ethyl ketoxime (MEKO) when exposed to water or humid air. In animal studies MEKO produced tumors in rats. Provide ventilation during use to control MEKO exposure or use respiratory protection.

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:** The total of the organic components contained in the product is not classified as "readily biodegradable" (OECD-301 A-F).

PERSISTENCE AND DEGRADABILITY: Biodegradation is not applicable to inorganic substances such as crystalline silica, quartz.

**BIO-ACCUMULATIVE POTENTIAL:** is no evidence to suggest bioaccumulation will occur.

**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: Roof Coating, not regulated.

**UN NUMBER :** Not Applicable

UN PROPER SHIPPING NAME: Not regulated.
TRANSPORT HAZARD CLASS: Not Applicable
PACKING GROUP: Not Applicable
MARINE POLLUTANT: Not Applicable
SPECIAL PRECAUTIONS: Not Applicable

#### SECTION 15- REGULATORY INFORMATION

**TSCA (Toxic Substances Control Act) Regulations**: This material or its components are listed on the TSCA Chemical Substance Inventory and is in compliance with all applicable rules and orders.

**SARA:** This material does not contain any substances in the list of Toxic Chemicals subject to Section 313 of the Superfund Amendments and Reauthorization Act of 1986 (SARA Title III), in excess of the applicable de minims concentrations as specified in Section 372.38 (a).

Massachusetts, New Jersey, Pennsylvania right to know Extraordinarily Hazardous Substance

Lists:

Reportable Component CAS No Weight % (+ 2%)

Crystalline Silica 14808-60-7 31

(as respirable dust only, not while in liquid form)

Methyl Oximo silane 22984-54-9 < 7

California Proposition 65:

Warning: This product contains chemicals known to the state of California to be Carcinogenic.

Reportable Component CAS No Weight % (+ 2%)

Crystalline Silica 14808-60-7 31

(as respirable dust only, not while in liquid form)

Pigment Dispersion (as carbon black) 1333-86-4 <0.5%

(as respirable dust only, not while in liquid form)

# **SECTION 16- OTHER INFORMATION**

DATE ISSUED:	12/17/2015
REVISION:	06/2/2015
SDS REF. No:	Flex:100
REVISION INDICATOR:	1.2

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**End of Material Safety Data Sheet**