



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

SAFETY DATA SHEET

SECTION 1- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: ACU-CAULK:SM

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/ bond container and receiving equipment.

For industrial and industrial use only – for outside use only

Store in cool/ well-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

*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.

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

** "WARNING: THIS PRODUCT CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM"

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

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 appropriate 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 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 : 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 : Stable 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 : Avoid water, 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 minimis concentrations as specified in Section 372.38 (a).

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

Lists:

<u>Reportable Component</u>	CAS No	Weight % (+ 2%)
Crystalline Silica (as respirable dust only, not while in liquid form)	14808-60-7	31
Methyl Oximo silane	22984-54-9	< 7

California Proposition 65:

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

<u>Reportable Component</u>	CAS No	Weight % (+ 2%)
Crystalline Silica (as respirable dust only, not while in liquid form)	14808-60-7	31
Pigment Dispersion (as carbon black) (as respirable dust only, not while in liquid form)	1333-86-4	<0.5%

SECTION 16- OTHER INFORMATION

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

For Your Protection: Advanced Coatings Systems, Inc. warrants only that its products meet the specifications stated in the sales contract. Typical properties, where stated, are to be considered as representative of current production and should not be treated as specifications. While all the information presented in this document is believed to be reliable and to represent the best available data on these products, NO GUARANTY, WARRANTY, OR REPRESENTATION IS MADE, INTENDED, OR IMPLIED AS TO THE CORRECTNESS OR SUFFICIENCY OF ANY INFORMATION, OR AS TO THE MERCHANTABILITY OR SUITABILITY OR FITNESS OF ANY CHEMICAL COMPOUNDS OR OTHER PRODUCTS OR THE USE THEREOF ARE NOT SUBJECT TO A CLAIM BY A THIRD PARTY FOR INFRINGEMENT OF ANY PATENT OR OTHER INTELLECTUAL PROPERTY RIGHT. THE USER SHOULD CONDUCT SUFFICIENT INVESTIGATION TO ESTABLISH THE SUITABILITY OF ANY PRODUCT FOR ITS INTENDED USE. Liability of Advanced Coatings Systems, Inc. for all claims, whether arising out of breach of warranty, negligence, strict liability, or otherwise, is limited to the purchase price of the material. Products may be toxic and require special precautions in handling. For all products listed, the user should obtain detailed information on toxicity, together with proper shipping, handling, and storage procedures, and comply with all applicable safety and environmental standards. Toxicity and risk characteristics of chemical compounds and other products may differ when used with other materials or in a manufacturing or other process. Those risk characteristics should be determined by the user and made known to handlers, processors, and end users.

End of Material Safety Data Sheet