

MATERIAL SAFETY DATA SHEET

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MSDS Number: WCS1 ; WCS5 ;

I. CHEMICAL PRODUCT IDENTIFICATION

Product Name: WATER CLEAR SILICONE
HMIS Ratings:
NFPA Ratings:

Health: Moderate(2)
 Flammability: Slight(1)
 Instability/Reactivity: Minimal(0)

II. COMPOSITION, INFORMATION ON INGREDIENTS

Chemical Ingredients	C.A.S. Number	% By Weight	ACGIH TLV TWA/STEL	OSHA PEL TWA/STEL	Other TWA/STEL	LD50	LC50
ETHYLTRIACETOXY SILANE	17689-77-9	1 - 5					
Notes							
METHYLTRIACETOXY SILANE	4253-34-3	1 - 5					
Notes							
Other:	THIS PRODUCT CONSISTS OF A MIXTURE/PREPARATION. *THE ABOVE COMPONENTS ARE HAZARDOUS AS DEFINED IN 29 CFR 1910.1200						

III. HAZARDS IDENTIFICATION PRIMARY ROUTE OF ENTRY

Eyes: DIRECT CONTACT IRRITATES MODERATELY WITH REDNESS AND SWELLING.

Skin: A SINGLE SHORT EXPOSURE (LESS THAN 24 HOURS) MAY IRRITATE. REPEATED PROLONGED CONTACT (24 TO 48 HOURS) MAY IRRITATE MODERATELY.

Ingestion: MAY CAUSE VOMITING.

Inhalation: IRRITATES RESPIRATORY PASSAGES VERY SLIGHTLY. OVEREXPOSURE MAY CAUSE DROWSINESS.

Medical Conditions

Aggravated by Exposure:

Other: COMMENTS:
 WHEN HEATED TO TEMPERATURES ABOVE 150°C IN THE PRESENCE OF AIR, PRODUCT CAN FORM FORMALHYDE VAPORS. FORMALHYDE IS A POTENTIAL CANCER HAZARD, A KNOWN SKIN AND RESPIRATORY SENSITIZER, AND AN IRRITANT TO THE EYES, NOSE, THROAT, SKIN, AND DIGESTIVE SYSTEM. SAFE HANDLING CONDITIONS MAY BE MAINTAINED BY KEEPING VAPOR CONCENTRATIONS WITHIN THE OSHA PERMISSIBLE EXPOSURE LIMIT FOR FORMALDEHYDE.

IV. FIRST AID MEASURES

Eyes: IMMEDIATELY FLUSH WITH WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION.

Skin: REMOVE FROM SKIN AND WASH THOROUGHLY WITH SOAP AND WATER OR

WATERLESS CLEANSER. GET MEDICAL ATTENTION IF IRRITATION OR OTHER ILL EFFECTS DEVELOP OR PERSIST.

Ingestion: GET MEDICAL ATTENTION. DO NOT INDUCE VOMITING.

Inhalation: REMOVE TO FRESH AIR. IF ILL EFFECTS PERSIST GET MEDICAL ATTENTION.

Other: COMMENTS:
TREAT ACCORDING TO PERSON'S CONDITION AND SPECIFICS OF EXPOSURE.

V. FIRE FIGHTING MEASURES

Flash Point: GREATER THAN >212°F (100°C).

Test Method: CLOSED CUP

Lower Flammability Limit: 5.4%
ACETIC ACID: DECOMPOSED PRODUCT

Upper Flammability Limit: 16%

Extinguishing Agents: COMPATIBLE WITH ALL USUAL EXTINGUISHING MEDIA.

Unusual Fire or Explosion: NONE

Hazards:

Fire Fighting Procedures: WEAR FULL PROTECTIVE CLOTHING, POSITIVE PRESSURE OR PRESSURE DEMAND BREATHING APPARATUS AND PROTECTIVE COVERING FOR EXPOSED AREAS OF THE HEAD. IF LARGE AMOUNT IS INVOLVED, EVACUATE AREA.

VI. ACCIDENTAL RELEASE MEASURES

Containment/Cleanup: VENTILATE AREA. CONTAIN SPILL. EVACUATE UNPROTECTED PERSONNEL FROM HAZARD AREA. WIPE UP OR SCRAPE UP AND CONTAIN FOR SALVAGE OR DISPOSAL. COVER WITH ABSORBENT, PLACE IN APPROVED DRUM; CLEAN AREA AS APPROPRIATE SINCE SPILLED MATERIALS, EVEN IN SMALL QUANTITIES, MAY PRESENT A SLIP HAZARD. DISPOSE OF SATURATED ABSORBENT OR CLEANING MATERIALS APPROPRIATELY, SINCE SPONTANEOUS HEATING MAY OCCUR. LOCAL, STATE, AND FEDERAL REPORTING REQUIREMENTS MAY APPLY TO SPILLS OR RELEASES OF THIS MATERIAL INTO THE ENVIRONMENT.

Other: PERSONAL PRECAUTIONS:
OBSERVE ALL PERSONAL EQUIPMENT RECOMMENDATIONS DESCRIBED.
ENVIRONMENTAL PRECAUTIONS:
DISPOSAL OF COLLECTED PRODUCT, RESIDUES, AND CLEANUP MATERIALS MAY BE GOVERNMENTALLY REGULATED. OBSERVE ALL APPLICABLE LOCAL, STATE AND FEDERAL WASTE MANAGEMENT REGULATIONS.

VII. HANDLING AND STORAGE

Other: HANDLING:
ASSURE GOOD VENTILATION. PRODUCT EVOLVES ACETIC ACID WHEN EXPOSED TO WATER OR HUMID AIR. PROVIDE VENTILATION DURING USE TO CONTROL ACETIC ACID WITHIN EXPOSURE GUIDELINES OR USE RESPIRATORY PROTECTION. AVOID EYE CONTACT. AVOID SKIN CONTACT. DO NOT TAKE INTERNALLY. AVOID BREATHING VAPOR.
STORAGE:
USE REASONABLE CARE AND STORE AWAY FROM OXIDIZING MATERIALS.
KEEP CONTAINER CLOSED AND STORE AWAY FROM WATER OR MOISTURE.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eyes:	AVOID EYE CONTACT. USE PROPER PROTECTION – SAFETY GLASSES AS A MINIMUM.
Skin:	AVOID SKIN CONTACT. PROTECT HANDS WITH IMPERVIOUS RUBBER GLOVES AND WEAR TYPICAL FULL COVER CLOTHING. GLOVES MUST BE CHECKED BEFORE EACH USE FOR SIGNS OF DEGRADATION AND PENETRATION AND FOR PROPER FUNCTIONING. USE NITRILE OR BUTYL RUBBER GLOVES.
Respiratory:	AVOID BREATHING OF VAPORS. WEAR APPROPRIATE, PROPERLY FITTED NIOSH/MSHA APPROVED RESPIRATOR WHEN THE AIRBORNE CONTAMINANT LEVELS EXCEED THE EXPOSURE LIMITS INDICATED ON THE MSDS. FOLLOW RESPIRATOR MANUFACTURER'S DIRECTIONS FOR RESPIRATOR USE.
Engineering:	LOCAL EXHAUST: RECOMMENDED GENERAL VENTILATION: RECOMMENDED.
Other:	PRECAUTIONARY MEASURES AVOID EYE CONTACT. AVOID SKIN CONTACT. AVOID BREATHING VAPOR. KEEP CONTAINER CLOSED. DO NOT TAKE INTERNALLY. HYGIENE MEASURES: WASH HANDS AFTER HANDLING AND BEFORE EATING. NOTE: THESE PRECAUTIONS ARE FOR ROOM TEMPERATURE HANDLING. USE AT ELEVATED TEMPERATURES OR IN AEROSOL SPRAY APPLICATIONS MAY REQUIRE ADDED PRECAUTIONS.

IX. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	COLORLESS, TRANSPARENT PASTE
Odor:	ACETIC ACID (VINEGAR ODOR)
Boiling Point:	NOT APPLICABLE
Solubility in Water:	NIL
Specific Gravity:	1.05 @ 77°F (25°C)
Vapor Pressure:	(AT 100°F): NOT APPLICABLE
Vapor Density:	NOT DETERMINED
Physical State:	SOLID (PASTE)
Volatile Content:	% VOLATILE BY VOLUME: NOT DETERMINED VOLATILE ORGANIC CONTENT (VOC): NOT DETERMINED
Other:	FLASH POINT: GREATER THAN 65°C(150°F).DENSITY: 8.76 LBS/GAL FLASH POINT (SETAFLASH): GREATER THAN 100°C (212°F). NOTE: THE ABOVE INFORMATION IS NOT INTENDED FOR USE IN PREPARING PRODUCT SPECIFICATIONS.

X. STABILITY AND REACTIVITY

Stability:	STABLE. NO HAZARDOUS REACTIONS WHEN STORED AND HANDLED ACCORDING TO PRESCRIBED INSTRUCTIONS.
Hazardous Decomposition Products:	THERMAL BREAKDOWN OF THIS PRODUCT DURING FIRE OR VERY HIGH HEAT CONDITIONS MAY EVOLVE THE FOLLOWING HAZARDOUS DECOMPOSITION PRODUCT: CARBON OXIDES AND TRACES OF INCOMPLETELY BURNED CARBON COMPOUNDS. SILICONE DIOXIDE. FORMALDEHYDE.

XI. TOXICOLOGICAL INFORMATION

Component Toxicology Information:	CHRONIC EXPOSURE: SKIN: REPEAT CONTACT WITH SKIN MAY IRRITATE MODERATELY. ACETIC ACID MAY CAUSE SKIN IRRITATION. INHALATION: VAPOR OVEREXPOSURE MAY IRRITATE EYES, NOSE, AND THROAT. EXPOSURE TO ACETIC ACID MAY CAUSE RESPIRATORY TRACT
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IRRITATION, ALTHOUGH CHRONIC EXPOSURE MAY CAUSE CHRONIC BRONCHITIS.

ORAL: SWALLOWING MAY HAVE ADVERSE EFFECTS DEPENDING ON QUANTITY INGESTED.

Special Hazard Information:

SPECIFIC EFFECTS:
THIS MATERIAL CONTAINS THE FOLLOWING COMPONENTS WITH THE SPECIAL HAZARDS LISTED BELOW.
CARCINOGENS: NONE KNOWN
TERATOGENS: NONE KNOWN
MUTAGENS: NONE KNOWN
REPRODUCTIVE TOXINS: NONE KNOWN

XII. ECOLOGICAL INFORMATION

Environmental Fate and Distribution: DO NOT ALLOW PRODUCT TO ENTER WASTE WATER DRAINS, WATERWAYS OR SOIL. HOWEVER, WHEN EXPOSED TO MOISTURE AND AIR IN THE ENVIRONMENT, THE PRODUCT CURES TO A SOLID STATE IN WHICH NO LEACH-ABLE MATERIALS WILL BE RELEASED.

Ecotoxicity:

XIII. DISPOSAL CONSIDERATIONS

Disposal Method: WHEN A DECISION IS MADE TO DISCARD THIS MATERIAL, AS RECEIVED, IS IT CLASSIFIED AS A HAZARDOUS WASTE? NO STATE OR LOCAL LAWS MAY IMPOSE ADDITIONAL REGULATORY REQUIREMENTS REGARDING DISPOSAL.

RCRA Class: (40 CFR 261)

XIV. TRANSPORT INFORMATION

D.O.T. Shipping Name: NOT APPLICABLE
D.O.T. Hazard Class: NOT APPLICABLE

XV. REGULATORY INFORMATION

TSCA Status: ALL CHEMICAL SUBSTANCES FOUND IN THIS PRODUCT COMPLY WITH THE TOXIC SUBSTANCE CONTROL ACT INVENTORY REPORTING REQUIREMENTS.

EPA Sara Title III Chemical Listings: CERCLA/SARA – HAZARDOUS SUBSTANCES AND THEIR REPORTABLE QUANTITIES: NONE

SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES: NONE

SECTION 311/312 HAZARD CATEGORIES:

IMMEDIATE: YES

DELAYED: NO

FIRE: NO

PRESSURE: NO

REACTIVE: NO

SECTION 313:

THIS PRODUCT COANTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT TO KNOW ACT:

CHEMICAL: ACETIC ACID

CAS NO.: 64-19-7

WT%: 0.1 – 1.5

Supplemental State Compliance Information: CONTENTS OF THIS MSDS COMPLY WITH OSHA HAZARD COMMUNICATION STANDARD 29CFR 1910.1200.

- California:** STATE REGULATIONS: THIS PRODUCT DOES NOT COMPLY WITH THE CALIFORNIA AIR RESOURCES BOARD MAXIMUM FOR VOC'S IN A SEALANT.
- Massachusetts:** STATE RIGHT-TO-KNOW REGULATIONS
CHEMICAL: SILICA, AMORPHOUS; CAS# 7631-86-9; WT%: 7-13
HYDROTREATED MIDDLE PETROLEUM DISTILLATES; CAS# 64742-46-7; WT%: 7-13
- New Jersey:** STATE RIGHT-TO-KNOW REGULATIONS
CHEMICAL: DIMETHYL SILOXANE, HYDROXY-TERMINATED; CAS# 70131-67-8; WT%: >60
CHEMICAL: SILICA, AMORPHOUS; CAS# 7631-86-9; WT%: 7-13
HYDROTREATED MIDDLE PETROLEUM DISTILLATES; CAS# 64742-46-7; WT%: 7-13
CHEMICAL: ETHYLTRIACETOXYSILANE; CAS# 17689-77-9; WT%: 1-5
METHYLTRIACETOXYSILANE; CAS# 4253-34-3; WT%: 1-5
- Pennsylvania:** STATE RIGHT-TO-KNOW REGULATIONS
CHEMICAL: DIMETHYL SILOXANE, HYDROXY-TERMINATED; CAS# 70131-67-8; WT%: >60
CHEMICAL: SILICA, AMORPHOUS; CAS# 7631-86-9; WT%: 7-13
HYDROTREATED MIDDLE PETROLEUM DISTILLATES; CAS# 64742-46-7; WT%: 7-13
- Other:** INTERNATIONAL:
CANADA:
THIS PRODUCT HAS BEEN CLASSIFIED ACCORDING TO THE HAZARD CRITERIA OF THE CPR AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CPR.
CANADIAN DSL:
ALL INGREDIENTS IN THIS PRODUCT ARE CURRENTLY LISTED ON THE CANADIAN DOMESTIC SUBSTANCES LIST (DSL) AND WOULD BE CONSIDERED NEW FOR THE PURPOSES OF THE CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA).
NOTE:
THE RECIPIENT OF THIS PRODUCT SHOULD BE AWARE OF THE POSSIBLE EXISTENCE OF ADDITIONAL LOCAL REGULATIONS, WHICH MAY BE APPLICABLE TO THIS PRODUCT.

XVI. OTHER INFORMATION

WARRANTY INFORMATION

THIS INFORMATION IS OFFERED IN GOOD FAITH AS TYPICAL VALUES AND NOT AS A PRODUCT SPECIFICATION. NO WARRANTY, EXPRESSED OR IMPLIED, IS HEREBY MADE. THE RECOMMENDED INDUSTRIAL HYGIENE AND SAFE HANDLING PROCEDURES ARE BELIEVED TO BE GENERALLY APPLICABLE. HOWEVER, EACH USER SHOULD REVIEW THESE RECOMMENDATIONS IN THE SPECIFIC CONTEXT OF THE INTENDED USE AND DETERMINE WHETHER THEY ARE APPROPRIATE.