

ITEM: 4UH12 - Silicone Clear 10.1 Oz

MSDS: A6949

ORDER: 0080660457

LP NUMBER: U270345460-A

MATERIAL SAFETY DATA SHEET (MSDS)

This MSDS should be attached or kept with the respective product with which it is associated.

***** MATERIAL SAFETY DATA SHEET - A6949 *****

Associated Grainger Items
4UH09, 4UH05, 4YPO6, 4UH11, 4UH12, 4UH13, 4UH10, 4UH14, 2XKD7

MATERIAL SAFETY DATA SHEET

MOUMENTIVE(TM)

RTV 102 - WHITE ACETOXY SEALANT (WHITE)

VERSION: 1.7

03/22/2010

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURED BY:
WATERFORD PLANT
260 HUDSON RIVER RD
WATERFORD NY 12188

REVISED: 03/22/2010

PREPARER: PRODUCT STEWARDSHIP COMPLIANCE AND STANDARDS

CHEMTREC: 1-800-424-9300

CHEMICAL FAMILY/USE: SEALANT

FORMULA: MIXTURE SILICONE SEALANT

HMS
HEALTH 1
FLAMMABILITY 1
REACTIVITY 0

NFPA:
HEALTH 2
FLAMMABILITY 1
REACTIVITY 0

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

WARNING:

MAY BE HARMFUL IF SWALLOWED. IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN. ADVERSE LIVER AND REPRODUCTIVE EFFECTS REPORTED IN ANIMALS. CONTAINS OCTAMETHYLCYCLOTETRASILOXANE WHICH MAY CAUSE REPRODUCTIVE EFFECTS BASED ON ANIMAL DATA.

FORM: PASTE

COLOR: WHITE

ODOR: VINEGAR-LIKE

POTENTIAL HEALTH EFFECTS:
INGESTION: MAY BE HARMFUL IF SWALLOWED.

SKIN:
UNCURED PRODUCT CONTACT WILL IRRITATE LIPS, GUMS AND TONGUE. SKIN IRRITATION IS POSSIBLE AFTER CONTACT WITH THE UNCURED PRODUCT.

INHALATION:
INHALATION OF VAPORS MAY CAUSE IRRITATION OF THE RESPIRATORY TRACT. APPLIES IN UNCURED STATE.

EYES: EYE IRRITATION IS POSSIBLE AFTER CONTACT WITH THE UNCURED PRODUCT.

MEDICAL CONDITIONS AGGRAVATED: NONE KNOWN.

SUBCHRONIC (TARGET ORGAN): LIVER; REPRODUCTIVE HAZARD

CHRONIC EFFECTS / CARCINOGENICITY:
THIS PRODUCT OR ONE OF ITS INGREDIENTS PRESENT AT 0.1% OR MORE IS NOT LISTED AS A CARCINOGEN OR SUSPECTED CARCINOGEN BY NTP, IARC, OR OSHA.

ROUTES OF EXPOSURE: DERMAL; EYES

3. COMPOSITION/INFORMATION ON INGREDIENTS

PRODUCT COMPOSITION	CAS REG NO.	WGT. %
A. HAZARDOUS:		
METHYLTRIACTOXYLSILANE	4253-34-3	1 - 5 %
OCTAMETHYLCYCLOTETRASILOXANE	556-67-2	1 - 5 %
B. NON-HAZARDOUS:		
DIMETHYLPOLYSILOXANE	70131-67-8	60 - 100 %
TREATED FILLER	68611-44-9	10 - 30 %
SILOXANES & SILICONES, DIMETHYLPOLYMERS N/METHYLSILSESQUOXANES	68554-67-6	5 - 10 %

4. FIRST AID MEASURES

INGESTION:
DO NOT INDUCE VOMITING. SLOWLY DILUTE WITH 1-2 GLASSES OF WATER OR MILK AND SEEK MEDICAL ATTENTION. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

SKIN:
WASH WITH SOAP AND WATER. GET MEDICAL ATTENTION IF IRRITATION OR SYMPTOMS FROM SECTION 3 DEVELOP.

INHALATION:
IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL RESPIRATION USING A BARRIER DEVICE. IF BREATHING IS DIFFICULT GIVE OXYGEN. GET MEDICAL ATTENTION.

EYES:
IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES AND GET MEDICAL ATTENTION IF IRRITATION PERSISTS.

NOTE TO PHYSICIAN: NONE KNOWN.

5. FIRE-FIGHTING MEASURES

FLASH POINT: >93.3 DEG. C; 200 DEG. F
METHOD: ESTIMATED

IGNITION TEMPERATURE: NO DATA AVAILABLE

FLAMMABLE LIMITS IN AIR - LOWER (%): NOT APPLICABLE
FLAMMABLE LIMITS IN AIR - UPPER (%): NOT APPLICABLE

SENSITIVITY TO MECHANICAL IMPACT: NO

SENSITIVITY TO STATIC DISCHARGE:
SENSITIVITY TO STATIC DISCHARGE IS NOT EXPECTED.

EXTINGUISHING MEDIA: ALL STANDARD EXTINGUISHING AGENTS ARE SUITABLE.

SPECIAL FIRE FIGHTING PROCEDURES:
FIREFIGHTERS MUST WEAR NIOSH/MSHA APPROVED POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS WITH FULL FACE MASK AND FULL PROTECTIVE CLOTHING.

6. ACCIDENTAL RELEASE MEASURES

ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:
WIPE, SCRAPE OR SOAK UP IN AN INERT MATERIAL AND PUT IN A CONTAINER FOR DISPOSAL. WASH WALKING SURFACES WITH DETERGENT AND WATER TO REDUCE SLIPPING HAZARD. WEAR PROPER PROTECTIVE EQUIPMENT AS SPECIFIED IN THE PROTECTIVE EQUIPMENT SECTION.

7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:
AVOID CONTACT WITH SKIN, EYES AND CLOTHING. USE ONLY IN WELL-VENTILATED AREAS. AVOID ACCIDENTAL INGESTION OF THIS MATERIAL. WASH HANDS AND FACE BEFORE EATING, DRINKING, SMOKING, USING TOILET FACILITIES, OR APPLYING COSMETICS. REMOVE CONTACT LENSES BEFORE USING SEALANT. DO NOT HANDLE LENSES UNTIL ALL SEALANT HAS BEEN CLEANED FROM THE FINGERTIPS, NAILS AND CUTICLES. RESIDUAL SEALANT MAY REMAIN ON FINGERS FOR SEVERAL DAYS AND TRANSFER TO LENSES AND CAUSE SEVERE EYE IRRITATION. STORE AWAY FROM HEAT, SOURCES OF IGNITION, AND INCOMPATIBLES. KEEP AWAY FROM CHILDREN. KEEP CONTAINER CLOSED WHEN NOT IN USE.

STORAGE: KEEP CONTAINERS TIGHTLY CLOSED IN A COOL, WELL-VENTILATED PLACE.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: EYEWASH STATIONS; SHOWERS; EXHAUST VENTILATION

RESPIRATORY PROTECTION:
IF EXPOSURE LIMITS ARE EXCEEDED OR RESPIRATORY IRRITATION IS EXPERIENCED, NIOSH/MSHA APPROVED RESPIRATORY PROTECTION SHOULD BE WORN. SUPPLIED AIR RESPIRATORS MAY BE REQUIRED FOR NON-ROUTINE OR EMERGENCY SITUATIONS. RESPIRATORY PROTECTION MUST BE PROVIDED IN ACCORDANCE WITH OSHA REGULATIONS (SEE 29 CFR 1910.134).

PROTECTIVE GLOVES: SOLVENT-RESISTANT GLOVES (BUTYL-RUBBER)

EYE AND FACE PROTECTION: SAFETY GLASSES WITH SIDE-SHIELDS

OTHER PROTECTIVE EQUIPMENT:
WEAR SUITABLE PROTECTIVE CLOTHING AND EYE/FACE PROTECTION.

EXPOSURE GUIDELINES:

COMPONENT	CAS RN	SOURCE	VALUE
OCTAMETHYLCYCLOTETRASILOXANE	556-67-2	Z_INTL_OELREL	5 PPM

ABSENCE OF VALUES INDICATES NONE FOUND

PEL - OSHA PERMISSIBLE EXPOSURE LIMIT

TLV - ACGIH THRESHOLD LIMIT VALUE

TWA - TIME WEIGHTED AVERAGE

INTL REL - INTERNAL RECOMMENDED EXPOSURE LIMIT

OSHA REVOKED THE FINAL RULE LIMITS OF JANUARY 19, 1989 IN RESPONSE TO THE 11TH CIRCUIT COURT OF APPEALS DECISION (APL-CIO V. OSHA) EFFECTIVE JUNE 30, 1993. SEE 29 CFR 1910.1000 (58 FR 35338).

9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT - C & F: NOT APPLICABLE

VAPOR PRESSURE (20 C) (MMHg): NO DATA AVAILABLE

VAPOR DENSITY (AIR=1): NO DATA AVAILABLE

FREEZING POINT: NO DATA AVAILABLE

PHYSICAL STATE: PASTE

ODOR: VINEGAR-LIKE

COLOR: WHITE

EVAPORATION RATE (BUTYL ACETATE=1): <1

SPECIFIC GRAVITY (WATER=1): CA. 1.06

DENSITY: CA. 1.06 G/CM3

ACID / ALKALINITY (MEQ/G): NOT APPLICABLE

SOLUBILITY IN WATER (20 C): UNKNOWN

SOLUBILITY IN ORGANIC SOLVENT (STATE SOLVENT): TOLUENE

VOLATILE ORGANIC CONTENT: 2.4 %(M)

VOC EXCL. H2O & EXEMPTS (G/L): 26 G/L

10. STABILITY AND REACTIVITY

STABILITY: STABLE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

HAZARDOUS THERMAL DECOMPOSITION / COMBUSTION PRODUCTS:
CARBON DIOXIDE (CO2); CARBON MONOXIDE; ACETIC ACID.; SILICON DIOXIDE.;
FORMALDEHYDE; THIS PRODUCT CONTAINS METHYLPOLYSILOXANES WHICH CAN GENERATE
FORMALDEHYDE AT APPROXIMATELY 300 DEGREES FAHRENHEIT (150°C) AND ABOVE, IN
ATMOSPHERES WHICH CONTAIN OXYGEN. FORMALDEHYDE IS A SKIN AND RESPIRATORY
SENSITIZER, EYE AND THROAT IRRITANT, ACUTE TOXICANT, AND POTENTIAL CANCER
HAZARD. A MSDS FOR FORMALDEHYDE IS AVAILABLE FROM MOMENTIVE.

INCOMPATIBILITY (MATERIALS TO AVOID): NONE KNOWN.

CONDITIONS TO AVOID: NONE KNOWN.

11. TOXICOLOGICAL INFORMATION

ACUTE ORAL:
REMARKS: NO DATA AVAILABLE

ACUTE DERMAL: REMARKS: NO DATA AVAILABLE

ACUTE INHALATION:
REMARKS: NO DATA AVAILABLE

OTHER:
OCTAMETHYLCYCLOTETRASILOXANE INGESTION:
RODENTS GIVEN LARGE DOSES VIA ORAL GAVAGE OF OCTAMETHYLCYCLOTETRASILOXANE
(1600 MG/KG DAY, 14 DAYS) DEVELOPED INCREASED LIVER WEIGHTS RELATIVE TO
UNEXPOSED CONTROL ANIMALS DUE TO HEPATOCELLULAR HYPERPLASIA (INCREASED
NUMBER OF LIVER CELLS WHICH APPEAR NORMAL) AS WELL AS HYPERTROPHY
(INCREASED CELL SIZE).

INHALATION:
IN INHALATION STUDIES, LABORATORY RODENTS EXPOSED TO
OCTAMETHYLCYCLOTETRASILOXANE (300 PPM FIVE DAYS WEEK, 90 DAYS) DEVELOPED
INCREASED LIVER WEIGHTS IN FEMALE ANIMALS RELATIVE TO UNEXPOSED CONTROL
ANIMALS. WHEN THE EXPOSURE WAS STOPPED, LIVERWEIGHTS RETURNED TO NORMAL.
MICROSCOPIC EXAMINATION OF THE LIVER CELLS DID NOT SHOW ANY EVIDENCE OF
PATHOLOGY. INHALATION STUDIES UTILIZING LABORATORY RABBITS AND GUINEA
PIGS SHOWED NO EFFECTS ON LIVER WEIGHTS. INHALATION EXPOSURES TYPICAL OF
INDUSTRIAL USAGE (5-10 PPM) SHOWED NO TOXIC EFFECTS IN RODENTS. RANGE
FINDING REPRODUCTIVE STUDIES WERE CONDUCTED (WHOLE BODY INHALATION, 70 DAYS
PRIOR TO MATING, THROUGH MATING, GESTATION AND LACTATION) WITH
OCTAMETHYLCYCLOTETRASILOXANE (D4). RATS WERE EXPOSED TO 70 AND 700 PPM. IN
THE 700 PPM GROUP, THERE WAS A STATISTICALLY SIGNIFICANT REDUCTION IN MEAN
LITTER SIZE AND IN IMPLANTATION SITES. NO D4 RELATED CLINICAL SIGNS WERE
OBSERVED IN THE PUPS AND NO EXPOSURE RELATED PATHOLOGICAL FINDINGS WERE
FOUND. INTERIM RESULTS FROM A TWO GENERATION REPRODUCTIVE STUDY IN RATS
EXPOSED TO 500 AND 700 PPM D4 (WHOLE BODY INHALATION, 70 DAYS PRIOR TO
MATING, THROUGH MATING, GESTATION AND LACTATION) RESULTED IN A
STATISTICALLY SIGNIFICANT DECREASE IN LIVE MEANLITTER SIZE AS WELL AS
EXTENDED PERIODS OF OFF-SPRING DELIVERY (DYSTOCIA). THESE RESULTS WERE NOT
OBSERVED AT THE 70 AND 300 PPM DOSING LEVELS. PRELIMINARY RESULTS FROM AN
ONGOING 24-MONTH COMBINED CHRONIC/ONCOGENICITY STUDY IN RATS EXPOSED TO 16,
30, 150, OR 700 PPM D4 SHOWED TEST-ARTICLE RELATED EFFECTS IN THE KIDNEY
(MALE AND FEMALE) AND UTERUS OF RATS EXPOSED FOR 12 TO 24 MONTHS. THESE
EFFECTS INCLUDE INCREASED KIDNEY WEIGHT AND SEVERITY OF CHRONIC
NEPHROPATHY, INCREASED UTERINE WEIGHT, INCREASED INCIDENCE OF ENDOMETRIAL
CELL HYPERPLASIA, AND AN INCREASED INCIDENCE OF ENDOMETRIAL ADENOMAS. ALL
OF THESE EFFECTS ARE LIMITED TO THE 700 PPM EXPOSURE GROUP. THESE RESULTS
HAVE BEEN SHOWN TO BE RAT-SPECIFIC. FURTHER STUDIES ARE ONGOING. IN
DEVELOPMENTAL TOXICITY STUDIES, RATS AND RABBITS WERE EXPOSED TO
OCTAMETHYLCYCLOTETRASILOXANE AT CONCENTRATIONS UP TO 700 PPM AND 500 PPM
RESPECTIVELY. NO TERATOGENIC EFFECTS (BIRTH DEFECTS) WERE OBSERVED IN
EITHER STUDY.

SENSITIZATION: NO DATA AVAILABLE

SKIN IRRITATION: NO DATA AVAILABLE

EYE IRRITATION: NO DATA AVAILABLE

MUTAGENICITY: UNKNOWN

12. ECOLOGICAL INFORMATION

TOXICITY: ECOTOXICOLOGICAL DATA FOR THIS PRODUCT IS NOT AVAILABLE.

DISTRIBUTION: NO DATA AVAILABLE

CHEMICAL FATE: NO DATA AVAILABLE

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD:
DISPOSAL SHOULD BE MADE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL
REGULATIONS.

14. TRANSPORT INFORMATION

FURTHER INFORMATION:
THIS PRODUCT IS NOT REGARDED AS DANGEROUS GOODS ACCORDING TO THE NATIONAL
AND INTERNATIONAL REGULATIONS ON THE TRANSPORT OF DANGEROUS GOODS.

15. REGULATORY INFORMATION

INVENTORIES:

CANADA DSL INVENTORY: Y (POSITIVE LISTING)

JAPAN INVENTORY OF EXISTING & NEW CHEMICAL SUBSTANCES (ENCS):
Y (POSITIVE LISTING)

KOREA EXISTING CHEMICALS INVENTORY (KECI): Y (POSITIVE LISTING)

CHINA INVENTORY OF EXISTING CHEMICAL SUBSTANCES: Y (POSITIVE LISTING)

AUSTRALIA INVENTORY OF CHEMICAL SUBSTANCES (AICS): Y (POSITIVE LISTING)

PHILIPPINES INVENTORY OF CHEMICALS AND CHEMICAL SUBSTANCES (PICCS):
Y (POSITIVE LISTING)

TSCA LIST: Y (POSITIVE LISTING) ON TSCA INVENTORY

EU LIST OF EXISTING CHEMICAL SUBSTANCES: Y (POSITIVE LISTING)

CANADA NDSL INVENTORY: N (NEGATIVE LISTING)

FOR INVENTORIES THAT ARE MARKED AS QUANTITY RESTRICTED OR SPECIAL CASES,
PLEASE CONTACT MOMENTIVE.

US REGULATORY INFORMATION:

SARA (311,312) HAZARD CLASS: ACUTE HEALTH HAZARD; CHRONIC HEALTH HAZARD

SARA (313) CHEMICALS:

CALIFORNIA PROPOSITION 65:

THIS PRODUCT DOES NOT CONTAIN ANY CHEMICALS KNOWN TO STATE OF CALIFORNIA TO
CAUSE CANCER, BIRTH DEFECTS, OR ANY OTHER REPRODUCTIVE HARM.

CANADIAN REGULATORY INFORMATION:

WHMIS HAZARD CLASS:

D2A - VERY TOXIC MATERIAL CAUSING OTHER TOXIC EFFECTS

D2B - TOXIC MATERIAL CAUSING OTHER TOXIC EFFECTS

16. OTHER INFORMATION

OTHER:

THESE DATA ARE OFFERED IN GOOD FAITH AS TYPICAL VALUES AND NOT AS PRODUCT
SPECIFICATIONS. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS 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.

C = CEILING LIMIT

NEGL = NEGLIGIBLE

EST = ESTIMATED

NF = NONE FOUND

NA = NOT APPLICABLE

UNKN = UNKNOWN

NE = NONE ESTABLISHED

REC = RECOMMENDED

ND = NONE DETERMINED

V = RECOMMENDED BY VENDOR

SKN = SKIN

TS = TRADE SECRET

R = RECOMMENDED

MST = MIST

NT = NOT TESTED

STEL = SHORT TERM EXPOSURE LIMIT

PPM = PARTS PER MILLION

PFB = PARTS PER BILLION

BY-PRODUCT= REACTION BY-PRODUCT, TSCA INVENTORY STATUS NOT REQUIRED UNDER
40 CFR PART 720.30 (H-2).