

MATERIAL SAFETY DATA SHEET

MSDS Name: QUAD VOC ADVANCED FORMULA SEALANT
MSDS Number: 24411-001
Version Number: 1
Revision Date: DEC-06-2007
Page Number: 1

SECTION I - PRODUCT AND COMPANY INFORMATION

Product Name: QUAD VOC ADVANCED FORMULA SEALANT
HMIS Hazard Rating: Health: 1 Fire: 2 Reactivity: 0 PPE: B

Company Identification: HENKEL CORPORATION
7405 PRODUCTION DRIVE
MENTOR OH 44060

Contact (24 hour): Customer Affairs (800)321-0253
Information phone/Fax: (440) 255-8900 / (440) 974-8358
CHEMIREC Emergency (24 hour): (703) 527-3887 (International)
(800) 424-9300
in Canada CANUEC 613-996-6666

Product Class: SEALANT
Trade Name: PRO-SERIES
Product Code: 24411-xxx

SECTION II - INGREDIENT AND HAZARD INFORMATION

Hazardous Ingredient Name	CAS Number	Percent	TSCA
Chloro,fluoro Solvent	TSRN7010S01	15 - 25	Y
Light Petroleum Distillates	TSRN0029S01	10 - 15	Y
Titanium Dioxide	13463-67-7	5 - 10	Y
Toluene	108-88-3	< 5.0	Y

Ingredient Notes:

Remaining ingredients are not considered OSHA hazardous.

**Titanium Dioxide not present in all colors.

The main hazard of Titanium Dioxide is dust inhalation. Because of its incorporation into the caulk, exposure by inhalation is unlikely.

Not recommended for interior use in occupied structures

Use OSI's Pro-Series H2U Acrylic Urethane Sealant.

Contains ingredients whose specific chemical identity has been withheld as a trade secret.

SECTION III - PHYSICAL AND CHEMICAL PROPERTIES

Form: High viscosity caulk
Appearance/Color: White

MATERIAL SAFETY DATA SHEET

MSDS Name: QUAD VOC ADVANCED FORMULA SEALANT
MSDS Number: 24411-001
Version Number: 1
Revision Date: DEC-06-2007
Page Number: 2

Solubility (in water): insol.
pH Value, +/- 3: Not Applicable
Boiling Range: 100 °C - 220 °C (212 °F - 428 °F)
Vapor Pressure (mmHg): 8 @ 68 °F (20 °C)
Evaporation Rate: 0.7 times Slower than n-Butyl Acetate

Vapor Density: Heavier than air

% Volatile, Weight: approx. 28 %
% Volatile, Volume: Not Available
Specific Gravity: 1.27874
VOC (less H2O or exempt): 50gr/l, (4 %)

NOTE:

*BOIL RANGE, EVAP RATE, VAPOR DENSITY AND PRESSURE FOR SOLVENT ONLY!

SECTION IV - FIRE FIGHTING MEASURES

Flammability Class: II
Flash Point: 112 °F (44.44 °C)
Tag Closed Cup
Explosive Range (LEL/UEL): 1 %
7 %

EXTINGUISHING MEDIA:

Carbon Dioxide---Dry Chemical---Foam
Use water fog to cool material in vicinity of fire.

SPECIAL FIRE-FIGHTING PROCEDURES:

Use self-contained breathing apparatus with full facepiece
operated in pressure demand with full protective equipment.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Any closed container may rupture when exposed to extreme heat.
Solvent vapors are heavier than air and travel along the ground
Vapors given off are flammable and may be ignited in air explosively.

SECTION V - HEALTH HAZARD DATA

Route	Species	Exposure and Dose
-------	---------	-------------------

ROUTES OF ENTRY:

ENTRY THROUGH... Inhalation and skin most likely

CARCINOGENICITY...

NIP? N/E | IARC Monographs? N/E | OSHA? NO

EFFECTS OF OVEREXPOSURE

Eyes: Can cause irritation, redness, tearing and blurred vision.
Skin: Prolonged or repeated contact can cause moderate

MATERIAL SAFETY DATA SHEET

MSDS Name: QUAD VOC ADVANCED FORMULA SEALANT
MSDS Number: 24411-001
Version Number: 1
Revision Date: DEC-06-2007
Page Number: 3

irritation, drying of the skin, and dermatitis.
Inhalation: Excessive inhalation of vapors can cause respiratory irritation, headache, drowsiness and fatigue. High concentrations of vapors are anesthetic and may cause central nervous system effects such as dizziness.
Ingestion: Can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

FIRST AID MEASURES

Eyes: Flush eyes gently with water for at least 15 minutes lifting eyelids occasionally; get prompt medical attention
Skin: Wash thoroughly with soap and water; apply a mild skin cream. Remove contaminated clothing.
Inhalation: Move affected person to fresh air; if breathing is difficult, administer oxygen; if breathing has stopped, give artificial respiration. Get medical attention.
Ingestion: DO NOT INDUCE VOMITING! Get immediate medical attention.

CHRONIC HAZARDS

NOTICE: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain, nervous system, liver or kidney damage or may cause cardiac arrhythmia. INTENTIONAL misuse of this product by deliberately inhaling its vapors may be harmful or fatal.
Repeated overexposure to TOLUENE may cause liver damage.
Toluene has been found to cause Kidney, Lung and Spleen damage in laboratory animals.
Repeated overexposure to Chloro, fluoro Solvent, by breathing or ingestion has been found to cause Liver and Kidney damage in laboratory animals.
May also produce symptoms of central nervous system depression.

SECTION VI - STABILITY AND REACTIVITY

Stability: Product is stable under normal storage conditions
Hazardous Polymerization: Will not occur under normal conditions

INCOMPATIBILITY:

Keep away from strong oxidizing agents

CONDITIONS TO AVOID:

Keep away from heat, spark, open flames and any ignition source.

HAZARDOUS DECOMPOSITION PRODUCTS:

Will produce fumes and smoke containing carbon monoxide and dioxide under fire conditions.

SECTION VII - ACCIDENTAL RELEASE AND DISPOSAL MEASURES:

STEPS TO BE TAKEN IN CASE OF SPILL:

Eliminate all ignition sources. Ventilate confined areas

MATERIAL SAFETY DATA SHEET

MSDS Name: QUAD VOC ADVANCED FORMULA SEALANT
MSDS Number: 24411-001
Version Number: 1
Revision Date: DEC-06-2007
Page Number: 4

(Open windows and doors). Wear appropriate protective clothing.
Cover with absorbent. Scoop into sealable safety container.

WASTE DISPOSAL METHOD:

Dispose of following local, state, and federal regulations.

SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

	ACGIH TLV	ACGIH ILV-C	ACGIH STEL	OSHA STEL	OSHA PEL
Chloro, fluoro Solvent	N/est	25.00 PPM	N/est	N/est	N/est
Light Petroleum Distillates	N/est	N/est	N/est	N/est	100.00 PPM
Titanium Dioxide	10.00 mg/F3	N/est	N/est	N/est	15.00 PPM
Toluene	50.00 PPM	N/est	150.00 PPM	150.00 PPM	100.00 PPM

RESPIRATORY PROTECTION:

If TLV of the product is exceeded, a NIOSH/MSHA jointly approved air supply respirator is advised in the absence of proper ventilation. OSHA regulations also permit the use of other types of NIOSH/MSHA respirators under specified conditions. (See your safety equipment supplier for more information)

VENTILATION:

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV
Ventilate during application and curing of this product.

PROTECTIVE CLOTHING:

Rubber gloves should be worn where skin contact is likely.
Wear impervious clothing and shoes.

EYE PROTECTION:

Chemical goggles or safety glasses should be worn.

HANDLING AND STORAGE PRECAUTIONS:

Keep away from heat, spark and flame.
Keep out of reach of children.
Keep container closed while not in use.
Do not cut or burn recepticals that have contained a solvent based product. Do not reuse this container.
Use only in a well ventilated area.

N/A=NOT APPLICABLE N/AV=NOT AVAILABLE N/E, N/est=NOI ESTABLISHED

MATERIAL SAFETY DATA SHEET

MSDS Name: QUAD VOC ADVANCED FORMULA SEALANT
MSDS Number: 24411-001
Version Number: 1
Revision Date: DEC-06-2007
Page Number: 5

SECTION IX - TRANSPORT INFORMATION: (not all sizes available)

GROUND TRANSPORT (DOT) - DOMESTIC

Units less than 5L (1.3 gallons liquid) i.e. cartridges

Proper Shipping Name: CONSUMER COMMODITY
Classification: ORM-D
DOT Label Required: ORM-D
Shipping Document: CONSUMER COMMODITY
ERG Code: 171

Units GREATER than 5L i.e. 5gal. pail, 50 gal. drum

Proper Shipping Name: ADHESIVE
Classification: CLASS 3
DOT Label Required: Flammable liquid, UN1133, Class 3
Shipping Document: ADHESIVE,3, UN1133, PG III
ERG Code: 128

AIR TRANSPORT (DOT) - DOMESTIC

Units less than 5L (1.3 gallons liquid) i.e. cartridges

Proper Shipping Name: CONSUMER COMMODITY
Classification: ORM-D
DOT Label Required: ORM-D-AIR
Shipping Document: Consumer Commodity, ORM-D
ERG Code: 171

Units GREATER than 5L i.e. 5gal. pail, 50 gal. drum

Proper Shipping Name: ADHESIVE
Classification: Class 3
DOT Label Required: Flammable Liquid, UN 1133, Class 3
Shipping Document: ADHESIVE, 3, UN1133, PG III
ERG Code: 128

AIR TRANSPORT (IATA) - INTERNATIONAL

Units less than 5 Liters i.e. one 12 PACK of 10oz (300gm) cartridges

Proper Shipping Name: CONSUMER COMMODITY
Classification: class 9
Label Required: ID8000
Shipping Document: Consumer Commodity,9, ID8000
ERG Code: 9L

Units GREATER than 5L i.e. 5gal. pail, 50 gal. drum

Proper Shipping Name: ADHESIVE
Classification: Class 3
Label Required: Flammable Liquid, UN 1133, Class 3
Shipping Document: ADHESIVE, 3, UN1133, PG III

MATERIAL SAFETY DATA SHEET

MSDS Name: QUAD VOC ADVANCED FORMULA SEALANI
MSDS Number: 24411-001
Version Number: 1
Revision Date: DEC-06-2007
Page Number: 6

ERG Code: 3L
MARINE - OCEAN TRANSPORT (IMDG)
Units less than 5L (1.3 gallons liquid) i.e. cartridges

Proper Shipping Name: ADHESIVE
Classification: Class 3
Label Required: Flammable Liquid, UN1133, Class 3, Ltd. Qty.
(on ocean container only, not req. on cartons)
Shipping Document: ADHESIVE, 3, UN1133, PG III, LTD QTY.
EMS Code: F-E, S-D

Units GREATER than 5L i.e. 5gal. pail, 50 gal. drum
Proper Shipping Name: ADHESIVE
Classification: Class 3
Label Required: Flammable Liquid, UN 1133, Class 3
Shipping Document: ADHESIVE, 3, UN1133, PG III
EMS Code: F-E, S-D

SECTION X - REGULATORY INFORMATION:

SARA TITLE III SECTION 313:

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right to Know Act of 1986 and of 40 CFR 372:

Ingredient Name	CAS Number	Percent
Toluene	108-88-3	< 5.0

SARA Section 311/312 Hazard Categories met:
Immediate (Acute) and Delayed (Chronic) Health Hazards
Chemical substances are ISCA listed.

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

DISCLAIMER:

The information contained herein is based on data available as of the date of preparation of this MSDS and which we believe to be reliable. However, no warranty is expressed or implied regarding the accuracy of the data. We shall not be responsible for the use of this information, or of any product, method, apparatus mentioned, and user must make his own investigation to determine the suitability of the information or products for his particular purpose, for the protection of the environment, and the health & safety of the users of this material.
