

8361 MSDS

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Material Safety Data Sheet
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1 Chemical Product and Company Identification

Tradename:
3M(TM) ULTRAPRO(TM) URETHANE SEAM SEALER - GRAY, P.N. 08361, 08362
Product ID:
XS-0414-1399-7 XS-0414-1562-0 60-9800-3472-6 60-9800-4412-1
IA-2601-6512-0
Intended Use of Product:
Adhesive/Sealant
Division:
AUTOMOTIVE AFTERMARKET

2 Hazards Identification

Critical Hazards:

Moderate Eye Irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.
Moderate Skin Irritation: Signs/symptoms can include localized redness, swelling, itching, and dryness.
Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.
Persons previously sensitized to isocyanates may develop a cross-sensitization reaction to other isocyanates.
Allergic Respiratory Reaction: Signs/symptoms can include difficulty breathing, wheezing, cough, and tightness of chest.
May be absorbed following inhalation and cause target organ effects.
May be absorbed following ingestion and cause target organ effects.

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Rutile Titanium Dioxide (1317-80-2) is a form of Titanium Dioxide (CAS 13463-67-7). WARNING: Contains a chemical which can cause cancer. (CAS 1317-80-2) (IARC human carcinogen 2B).

WARNING: Contains a chemical which can cause cancer. (CAS 100-41-4) (IARC possible human carcinogen 2B)

High exposures to xylenes in some animal studies have been reported to cause health effects on the developing embryo/fetus. These effects were often at levels toxic to the mother. The significance of these findings to humans has not been determined.

Data suggests P-TOLUENESULFONAMIDE (CAS 70-55-3) may be a possible teratogen / embryotoxin. P-TOLUENESULFONAMIDE was tested in an OECD guideline-compliant, GLP-compliant study. Male rats received the test substance by gavage for 42 days prior to mating. Female rats received the test substance by gavage from 14 days prior to mating, through mating and gestation, to lactation day 3. There was no effect on mating performance, fertility, or the production of birth defects at doses up to 750 mg/kg/d. However, newborns from the high-dose group (750 mg/kg/d) had a significant decrease in body weight and survival rate.

See Sections 7 and 11 for further information.

3 Composition/Information on Ingredients

Ingredient Name	CAS Number	Percentage
URETHANE POLYMER	68130-40-5	15 - 40
PLASTICIZER	70775-94-9	10 - 30
POLY(VINYL CHLORIDE)	9002-86-2	10 - 30
XYLENE	1330-20-7	5 - 10
CALCIUM OXIDE	1305-78-8	1 - 5
RUTILE TITANIUM DIOXIDE	1317-80-2	1 - 5
CALCIUM HYDROXIDE	1305-62-0	1 - 2
ETHYLBENZENE	100-41-4	1 - 2
HYDROTREATED LIGHT PETROLEUM DISTILLATES	64742-47-8	0.5 - 1.5
DIPHENYLMETHANE-4,4'-DIISOCYANATE (MDI)	101-68-8	0.1 - 1.0
P-TOLUENESULFONAMIDE	70-55-3	0.1 - 1.0

NOTE:

Each percentage is expressed as the ratio of the weight of the ingredient to the weight of the controlled product.

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4 First Aid Measures

Instructions for Eye Contact:

Flush eyes with large amounts of water. If signs/symptoms persist, get medical attention.

Instructions for Skin Contact:

Remove contaminated clothing and shoes. Immediately flush skin with
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Large amounts of water for at least 20 minutes or until chemical is removed. Get medical attention. Wash contaminated clothing and clean shoes before reuse.

Instructions for Inhalation:

Remove person to fresh air. If signs/symptoms develop, get medical attention.

Instructions for Ingestion:

Do not induce vomiting unless instructed to do so by medical personnel. Get medical attention.

5 Fire Fighting Measures

Flash point: 40 - 60 C PENSKEY MARTEN CC
Not a flammable solid per testing.

Lower Explosive Limit (%): 0.6 % by volume
Upper Explosive Limit (%): 7 % by volume
Autoignition temperature: >= 200 C

Suitable Extinguishing Media:
DO NOT USE WATER. Use fire extinguishers with class B extinguishing agents (e.g., dry chemical, carbon dioxide).

Exposure Hazards during Fire:
Closed containers exposed to heat from fire may build pressure and explode. Vapours may travel long distances along the ground or floor to an ignition source and flash back.

Combustion Products from Fire:
Isocyanates;
Carbon Monoxide;
Carbon Dioxide;
Oxides of nitrogen;

Unusual Fire and Explosion Hazards
None known.

Fire Fighting Procedures:
water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA).

NFPA: Health 2
NFPA: Fire 2
NFPA: Reactivity 0

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NFPA: Unusual Reaction Hazard
none

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

Special Instructions:

Contact with aluminum or zinc in a pressurized system may generate hydrogen gas which could create an explosion hazard.

6 Accidental Release Measures

Personal Precautions:

Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment. Call 3M-HELPS line (1-800-364-3577) for more information on handling and managing the spill.

Environmental Procedures

No data available.

Methods for cleaning up

No data available.

Spill Response:

Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel. Remove all ignition sources such as flames, smoking materials, and electrical spark sources. Use only non-sparking tools. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Pour isocyanate decontaminant solution (90% water, 8% concentrated ammonia, 2% detergent) on spill and allow to react for 10 minutes. Or pour water on spill and allow to react for more than 30 minutes. Cover with absorbent material. Place in a container approved for transportation by appropriate authorities, but do not seal the container for 48 hours to avoid pressure build-up. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Collect as much of the spilled material as possible using non-sparking tools. Clean up residue with an appropriate solvent selected by a qualified and authorized person. Ventilate the area

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with fresh air. Read and follow safety precautions on the solvent label and MSDS. Collect the resulting residue containing solution. Dispose of collected material as soon as possible.

7 Handling and Storage

Storage Requirements:

Avoid contact with water.

Store away from flammable and combustible materials.

Store under normal warehouse conditions.

Store in a cool, dry place.

Incompatible Materials:

Store out of direct sunlight.

Keep away from aluminum and zinc.

Amines;

Alcohols;

Water;

Reaction with water, alcohols and amines is not hazardous if container can vent to the atmosphere to prevent pressure buildup.

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Alkali and alkaline earth metals;
Heat;
High shear and high temperature conditions.
Reactive Metals
Reducing agents;
Sparks and/or Flames;
Strong acids;
Strong bases;
Strong oxidizing agents;
Temperatures above the boiling point;
Al or Mg powder and high shear/temperature conditions.
Ventilation:
Keep container in well-ventilated area.
Explosion Prevention:
Keep away from heat, sparks, open flame, pilot lights and other sources of ignition.
Static Prevention:
Avoid static discharge.
Use Instructions:
For industrial or professional use only. Avoid contact with oxidizing agents. Do not ingest.

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8 Exposure Controls/Personal Protection

Personal Protection

Eye Protection:

Avoid eye contact.
Avoid eye contact with vapours, mists, or spray.
Avoid eye contact with dust or airborne particles.
The following should be worn alone or in combination, as appropriate, to prevent eye contact:
Safety glasses with side shields
Indirect vented goggles;

Hand Protection:

Wear appropriate gloves when handling this material.
The following glove material(s) are recommended:
nitrile rubber;
polyethylene/ethylene vinyl alcohol;
polyvinyl alcohol;

Skin Protection:

Avoid skin contact.
Select and use gloves and/or protective clothing to prevent skin contact based on the results of an exposure assessment. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible materials.

Respiratory Protection:

Avoid breathing of vapours created during the cure cycle.
Do not breathe vapours.
Select one of the following approved respirators based on airborne concentration of contaminants and in accordance with regulations:
Half facepiece or fullface air-purifying respirator with organic vapor cartridges and P95 particulate prefilters

Ingestion (Prevention):

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water.
Keep out of the reach of children.

Recommended Ventilation:

Use with appropriate local exhaust ventilation.
Provide appropriate local exhaust ventilation at transfer points.
Provide ventilated enclosure for heat curing.
If exhaust ventilation is not available, use appropriate respiratory protection.
Curing enclosures must be exhausted to outdoors or to a suitable emission control device.
Do not use in a confined area or areas with little or no air movement.
Provide ventilation adequate to control dust concentrations below recommended exposure limits and/or control dust.

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Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below Occupational Exposure Limits and/or control dust, fume, or airborne particles. If ventilation is not adequate, use respiratory protection equipment.
Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below Occupational Exposure Limits. If ventilation is not adequate, use respiratory protection equipment.

Ingredient Exposure Data

URETHANE POLYMER (68130-40-5)

Specific Ingredient Data

No data available.

LD50 (rat, oral)

No data available.

LC50 (rat, inhalation/4 hours)

No data available.

Exposure Limits

No data available.

PLASTICIZER (70775-94-9)

Specific Ingredient Data

No data available.

LD50 (rat, oral)

No data available.

LC50 (rat, inhalation/4 hours)

No data available.

Exposure Limits

No data available.

POLY(VINYL CHLORIDE) (9002-86-2)

LD50 (rat, oral)

No data available.

LC50 (rat, inhalation/4 hours)

No data available.

Exposure Limits

ACGIH: TWA 1 mg/m3 (Respirable) (Table A4) 10 mg/m3 ACGIH:
TWA; inhalable particulates; Category: DUST, INERT OR NUISANCE 1
mg/m3 ACGIH: MPT; FRACTION RESPIRABLE 3 mg/m3 ACGIH: TWA;
respirable particles; Category: DUST, INERT OR NUISANCE

XYLENE (1330-20-7)

LD50 (rat, oral)

3523 mg/kg

LD50 (dermal, rabbit)

> 1700 mg/kg

LC50 (rat, inhalation/4 hours)

5000 ppm

Exposure Limits

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ACGIH: TWA 100 ppm (Table A4)
 ACGIH: TWA 434 mg/m³ (Table A4)
 ACGIH: STEL 150 ppm (Table A4)
 ACGIH: STEL 651 mg/m³ (Table A4)
 CMRG: TWA 50 ppm
 CMRG: STEL 75 ppm
 150 ppm ACGIH: STEL 100 ppm ACGIH: TWA 75 ppm CMRG: STEL 50
 ppm CMRG: TWA
 CALCIUM OXIDE (1305-78-8)
 LD50 (rat, oral) No data available.

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LC50 (rat, inhalation/4 hours) No data available.
 Exposure Limits
 ACGIH: TWA 2 mg/m³ 2 mg/m³ ACGIH: TWA
 RUTILE TITANIUM DIOXIDE (1317-80-2)
 LD50 (rat, oral) No data available.
 LC50 (rat, inhalation/4 hours) No data available.
 Exposure Limits
 ACGIH: TWA (Table A4) (Particulates not otherwise classified) 10
 mg/m³ ACGIH: TWA; Category: Titanium oxide (TiO₂)
 CALCIUM HYDROXIDE (1305-62-0)
 LD50 (rat, oral) 7340 mg/kg
 LC50 (rat, inhalation/4 hours) No data available.
 Exposure Limits
 ACGIH: TWA 5 mg/m³
 ETHYLBENZENE (100-41-4)
 LD50 (rat, oral) 3500 mg/kg
 LD50 (dermal, rabbit) 17800 uL/kg
 LC50 (rat, inhalation/4 hours) No data available.
 Exposure Limits
 ACGIH: TWA 20 ppm (Table A3)
 CMRG: TWA 25 ppm
 CMRG: STEL 75 ppm
 HYDROTREATED LIGHT PETROLEUM DISTILLATES (64742-47-8)
 LD50 (rat, oral) > 5 g/kg
 LC50 (rat, inhalation/4 hours) No data available.
 Exposure Limits
 Category: Jet Fuels (Non-aerosol) Category: Kerosine (petroleum) as
 total hydrocarbon vapour; as total hydrocarbon vapour; as total
 hydrocarbon vapour; 300 ppm 200 mg/m³ non-aerosol; non-aerosol;
 CMRG: TWA
 ACGIH: TWA
 200 mg/m³ ACGIH: TWA; as total hydrocarbon vapor, non-aerosol;
 skin contact contributes to exposure; Category: JET FUELS
 (NON-AEROSOL), AS TOTAL HYDROCARBON VAPOR 200 mg/m³ ACGIH: TWA;
 as total hydrocarbon vapor, non-aerosol; skin contact contributes
 to exposure; Category: Kerosine (petroleum) 165 ppm CMRG: TWA;
 Comments: PER EXXON MSDS 1/11/2011 FOR EXXSOL D80
 DIPHENYLMETHANE-4,4'-DIISOCYANATE (MDI) (101-68-8)
 LD50 (rat, oral) 9200 mg/kg
 LC50 (rat, inhalation/4 hours) 178 mg/m³
 Exposure Limits
 3M: STEL Category: FREE ISOCYANATES
 3M: TWA Category: FREE ISOCYANATES
 ACGIH-TWA: 0.02 ppm 3M: STEL; Category: FREE ISOCYANATES 0.0050

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ppm 3M: TWA; Category: FREE ISOCYANATES 0.0050 ppm ACGIH: TWA
0.0050 ppm ACGIH: TWA; Category: Benzene, 1,
1'-methylenebis[4-isocyanato-
P-TOLUENESULFONAMIDE (70-55-3)

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LD50 (rat, oral)	No data available.
LC50 (rat, inhalation/4 hours)	No data available.
Exposure Limits	
No data available.	

9 Physical and Chemical Properties

Physical form,Color,Odour:	Solid; paste; Black; solvent odour;
Odour Threshold:	No data available.
pH:	Not applicable
Boiling point/boiling range:	>= 137 C
Melting point/melting range:	Not applicable
Vapour pressure:	Not Available
Water Solubility:	Negligible
Specific gravity:	1.16 Water=1
Vapour density:	4 Air=1
Volatile organic compounds:	0.78 lb/gal Calculated per SCAQMD Rule 443.1 (Excluding exempt compounds) (93.38 gms/liter)
Evaporation rate:	Not applicable
Viscosity:	Not Available
Percent Volatile:	8.07 % (Excluding exempt compounds)

10 Stability and Reactivity

Conditions to Avoid:
Heat;
High shear and high temperature conditions.
Sparks and/or Flames;
Temperatures above the boiling point;
Store out of direct sunlight.

Materials to Avoid:
Amines;
Alcohols;
Water;
Reaction with water, alcohols and amines is not hazardous if container can vent to the atmosphere to prevent pressure buildup.
Alkali and alkaline earth metals;
Reactive Metals
Reducing agents;
Strong acids;
Strong bases;
Strong oxidizing agents;
Al or Mg powder and high shear/temperature conditions.

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Keep away from aluminum and zinc.
Hazardous Decomposition:
Isocyanates;
Carbon Monoxide;
Carbon Dioxide;
Oxides of nitrogen;
Stability and Reactivity:
Stable. Hazardous polymerization will not occur.

11 Toxicological Information

Effects from Eye Contact:

Moderate Eye Irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

Effects from Skin Contact:

Moderate Skin Irritation: Signs/symptoms can include localized redness, swelling, itching, and dryness.

Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

Effects from Inhalation:

Allergic Respiratory Reaction: Signs/symptoms can include difficulty breathing, wheezing, cough, and tightness of chest.

Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

May be absorbed following inhalation and cause target organ effects.

Effects from Ingestion:

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

May be absorbed following ingestion and cause target organ effects.

Sensitization Information:

Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

Allergic Respiratory Reaction: Signs/symptoms can include difficulty breathing, wheezing, cough, and tightness of chest.

Persons previously sensitized to isocyanates may develop a cross-sensitization reaction to other isocyanates.

Carcinogenicity:

Rutile Titanium Dioxide (1317-80-2) is a form of Titanium Dioxide (CAS 13463-67-7). WARNING: Contains a chemical which can cause cancer. (CAS 1317-80-2) (IARC human carcinogen 2B).

WARNING: Contains a chemical which can cause cancer. (CAS 100-41-4) (IARC possible human carcinogen 2B)

Mutagenicity:

No data available.

Reproductive Effects:

High exposures to xylenes in some animal studies have been reported

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to cause health effects on the developing embryo/fetus. These effects were often at levels toxic to the mother. The significance of these findings to humans has not been determined.

Data suggests P-TOLUENESULFONAMIDE (CAS 70-55-3) may be a possible teratogen / embryotoxin. P-TOLUENESULFONAMIDE was tested in an OECD guideline-compliant, GLP-compliant study. Male rats received the test substance by gavage for 42 days prior to mating. Female rats received the test substance by gavage from 14 days prior to mating, through mating and gestation, to lactation day 3. There was no effect on mating performance, fertility, or the production of birth defects at doses up to 750 mg/kg/d. However, newborns from the high-dose group (750 mg/kg/d) had a significant decrease in body weight and survival rate.

Component Based Information:

No data available.

Product Based Information:

No data available.

Other Effects & Information:

Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

Prolonged or repeated exposure may cause:

Liver Effects: Signs/symptoms may include loss of appetite, weight loss, fatigue, weakness, abdominal tenderness and jaundice.

Kidney/Bladder Effects: Signs/symptoms may include changes in urine production, abdominal or lower back pain, increased protein in urine, increased blood urea nitrogen (BUN), blood in urine, and painful urination.

12 Ecological Information

Environmental Data:

Ecotoxicity Data:

Not determined.

Ecofate Data:

Not determined.

Special statements for 2001/58/EC:

One or more components of this product have significant known or predicted environmental hazards, but a conservative assessment indicates a low environmental risk. Intended use and proper disposal are unlikely to cause the environmentally hazardous component(s) to enter the environment in quantities or by routes that could cause the adverse environmental impacts.

Other Effects and Information:

Take precautions to prevent direct release of this product to the environment. Product usages, or other lifecycle stages, are expected to release volatile organic compounds (VOCs) to the atmosphere. Regulations may restrict the release of VOCs because

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they contribute to the formation of ozone and smog. Regulatory definitions for VOC vary. Because of smog and other impacts, releases through evaporation or other means should be minimized to the extent possible.

13 Disposal Considerations

Product as Sold:

No data available.

Product Packaging:

No data available.

Special Instructions:

Since regulations vary, consult applicable regulations or authorities before disposal.

14 Transport Information

Transportation of Dangerous Goods

TDG Classification:

Non-Regulated Material

Special Information:: Contact 3M for more information.

These transportation classifications are provided as a customer service. As the shipper YOU remain responsible for complying with all applicable laws and regulations, including proper transportation classification and packaging. 3M's transportation classifications are based on product formulation, packaging, 3M policies and 3M's understanding of applicable current regulations. 3M does not guarantee the accuracy of this classification information. This information applies only to transportation classification and not the packaging, labeling, or marking requirements. The original 3M package is certified for Canadian ground shipment only. If you are shipping by air or ocean, the package may not meet applicable regulatory requirements.

15 Regulatory Information

WHMIS Classification:

D2A, D2B

NOTE:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

Product Certifications:

The product on this MSDS, or all its components, is included on the following countries' chemical inventories, as noted:

The components of this product are in compliance with the chemical

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notification requirements of CEPA. AICS - Australian Inventory of Chemical Substances

EINECS - European Inventory of Existing Commercial Chemical Substances

TSCA - Toxic Substances Control Act (USA)

16 Other Information

Reason for Reissue:

The following Sections and topics have been updated or revised:

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Added product id(s) to the MSDS;
Section 2 - Hazards Identification - Critical Hazards;
Section 3 - Composition/Information on Ingredients;
Section 5 - Fire Fighting Measures
Section 7 - Handling and Storage;
Section 8 - Exposure Controls/Personal Protection;
Section 11 - Toxicological Information;
Section 13 - Disposal Considerations;
Section 15 - Regulatory Information

The information in this Material Safety Data Sheet (MSDS) is believed to be correct as of the date issued. 3M MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, STATUTORY OR OTHERWISE, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of a 3M product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.

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