MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name **X-6 Xzilon Exterior Sealant**

Revision date 02-02-2012

Version # 06

CAS # Mixture

Product use Sealant.

Manufacturer/Supplier Xzilon, Inc.
11022 Vulcan Street
South Gate, CA 90280-0893 US

Telephone: (562) 923-5438

Emergency CHEMTREC: (800) 424-9300
CHEMTREC International: 00 1-703-527-3887

2. Hazards Identification

Physical state Liquid.

Appearance Colorless liquid.

Emergency overview WARNING!
Flammable liquid and vapor. Will be easily ignited by heat, spark or flames.

Harmful if inhaled. Irritating to eyes, respiratory system and skin. Harmful: may cause lung damage if swallowed. Vapors may cause drowsiness and dizziness. Prolonged exposure may cause chronic effects.

OSHA regulatory status This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

Potential health effects

Routes of exposure Inhalation. Ingestion. Skin contact. Eye contact.

Eyes Irritating to eyes. Contact may irritate or burn eyes.

Skin Irritating to skin. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.

Inhalation Harmful if inhaled. Irritating to respiratory system. Prolonged inhalation may be harmful.

Ingestion Harmful: may cause lung damage if swallowed. Irritating. May cause nausea, stomach pain and vomiting.

Target organs Eyes. Skin. Respiratory system. Central nervous system. Kidneys. Liver. Lungs.

Chronic effects Contains a substance that is classified as an IARC 2B - possibly carcinogenic to humans. May cause damage to the liver and kidneys. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.

Potential environmental effects Components of this product are hazardous to aquatic life. Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

3. Composition / Information on Ingredients

Components	CAS #	Percent
Stoddard solvent	8052-41-3	85 - 90
1,2,4-Trimethylbenzene	95-63-6	3 - 7
Solvent naphtha (petroleum), light aromatic	64742-95-6	3 - 7
1,3,5-Trimethylbenzene	108-67-8	0.5 - 1.5
Cumene	98-82-8	0.1 - 0.6
Xylene	1330-20-7	0.1 - 0.6

Composition comments Components not listed are either non-hazardous or are below reportable limits. All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First Aid Measures

First aid procedures

Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Skin contact	Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention if irritation develops and persists. Wash clothing separately before reuse. Destroy or thoroughly clean contaminated shoes.
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. Get medical attention, if needed.
Ingestion	Rinse mouth thoroughly. If vomiting occurs, keep head low so that stomach content does not get into the lungs. Never give anything by mouth to a victim who is unconscious or is having convulsions. Get medical attention immediately.
Notes to physician	In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
General advice	Take off contaminated clothing and shoes immediately. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use.

5. Fire Fighting Measures

Flammable properties	Flammable liquid and vapor. Can be ignited easily and burns vigorously. Heat may cause the containers to explode.

Extinguishing media

Suitable extinguishing media	Water. Water spray. Foam. Dry powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use a solid water stream as it may scatter and spread fire.

Protection of firefighters

Specific hazards arising from the chemical	Vapors may form explosive mixtures with air. Vapors are heavier than air and may travel along the floor and in the bottom of containers. Vapors may be ignited by a spark, a hot surface or an ember.
Protective equipment and precautions for firefighters	Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.
Fire fighting equipment/instructions	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Move containers from fire area if you can do so without risk. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. Containers should be cooled with water to prevent vapor pressure build up. Cool containers exposed to flames with water until well after the fire is out. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out. Some of these materials, if spilled, may evaporate leaving a flammable residue. Water runoff can cause environmental damage.
Specific methods	In the event of fire and/or explosion do not breathe fumes.
Hazardous combustion products	Carbon monoxide. Carbon Dioxide. Silicon oxides. Nitrogen oxides.

6. Accidental Release Measures

Personal precautions	Keep unnecessary personnel away. Local authorities should be advised if significant spillages cannot be contained. Keep upwind. Keep out of low areas. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. See Section 8 of the MSDS for Personal Protective Equipment.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not contaminate water.
Methods for containment	ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do so without risk. Dike the spilled material, where this is possible. Collect spillage. Prevent entry into waterways, sewers, basements or confined areas.
Methods for cleaning up	Small Spills: Absorb spill with vermiculite or other inert material. Clean surface thoroughly to remove residual contamination. This material and its container must be disposed of as hazardous waste. Should not be released into the environment. Large Spills: Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent product from entering drains. Do not allow material to contaminate ground water system.

Other information Clean up in accordance with all applicable regulations.

7. Handling and Storage

Handling Wear personal protective equipment. Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Do not taste or swallow. Use only with adequate ventilation. Wash thoroughly after handling. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. When using, do not eat, drink or smoke. Avoid release to the environment. Do not empty into drains.

Storage Store in cool place. Store in a well-ventilated place. Keep container tightly closed. Keep away from food, drink and animal feedingstuffs. Keep out of the reach of children.

8. Exposure Controls / Personal Protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Type	Value
1,2,4-Trimethylbenzene (95-63-6)	TWA	25 ppm
1,3,5-Trimethylbenzene (108-67-8)	TWA	25 ppm
Cumene (98-82-8)	TWA	50 ppm
Stoddard solvent (8052-41-3)	TWA	100 ppm
Xylene (1330-20-7)	STEL	150 ppm
	TWA	100 ppm

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
Cumene (98-82-8)	PEL	245 mg/m3
		50 ppm
Stoddard solvent (8052-41-3)	PEL	2900 mg/m3
		500 ppm
Xylene (1330-20-7)	PEL	435 mg/m3
		100 ppm

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

Components	Type	Value
1,2,4-Trimethylbenzene (95-63-6)	TWA	123 mg/m3
		25 ppm
1,3,5-Trimethylbenzene (108-67-8)	TWA	123 mg/m3
		25 ppm
Cumene (98-82-8)	TWA	246 mg/m3
		50 ppm
Stoddard solvent (8052-41-3)	TWA	572 mg/m3
		100 ppm

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Type	Value
1,2,4-Trimethylbenzene (95-63-6)	TWA	25 ppm
1,3,5-Trimethylbenzene (108-67-8)	TWA	25 ppm
Cumene (98-82-8)	STEL	75 ppm
	TWA	25 ppm
Stoddard solvent (8052-41-3)	STEL	580 mg/m3
	TWA	290 mg/m3
Xylene (1330-20-7)	STEL	150 ppm
	TWA	100 ppm

Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

Components	Type	Value
1,2,4-Trimethylbenzene (95-63-6)	TWA	25 ppm
1,3,5-Trimethylbenzene (108-67-8)	TWA	25 ppm
Cumene (98-82-8)	TWA	50 ppm
Stoddard solvent (8052-41-3)	TWA	100 ppm
Xylene (1330-20-7)	STEL	150 ppm
	TWA	100 ppm

Canada. Quebec OELS. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)

Components	Type	Value
1,2,4-Trimethylbenzene (95-63-6)	TWA	123 mg/m3
		25 ppm
1,3,5-Trimethylbenzene (108-67-8)	TWA	123 mg/m3
		25 ppm
Cumene (98-82-8)	TWA	246 mg/m3
		50 ppm
Stoddard solvent (8052-41-3)	TWA	525 mg/m3
		100 ppm
Xylene (1330-20-7)	STEL	651 mg/m3
		150 ppm
	TWA	434 mg/m3
		100 ppm

Mexico. Occupational Exposure Limit Values

Components	Type	Value
1,2,4-Trimethylbenzene (95-63-6)	STEL	170 mg/m3
		35 ppm
	TWA	125 mg/m3
		25 ppm
1,3,5-Trimethylbenzene (108-67-8)	STEL	170 mg/m3
		35 ppm
	TWA	125 mg/m3
		25 ppm
Cumene (98-82-8)	STEL	365 mg/m3
		75 ppm
	TWA	245 mg/m3
		50 ppm
Stoddard solvent (8052-41-3)	STEL	1050 mg/m3
		200 ppm
	TWA	523 mg/m3
		100 ppm
Xylene (1330-20-7)	STEL	655 mg/m3
		150 ppm
	TWA	435 mg/m3
		100 ppm

Engineering controls Use explosion-proof equipment. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Personal protective equipment

Eye / face protection Wear approved safety glasses or goggles. Wear face shield if there is risk of splashes.

Skin protection Wear suitable protective clothing and gloves.

Respiratory protection In case of inadequate ventilation or risk of inhalation of vapors, use suitable respiratory equipment.

General hygiene considerations Provide eyewash station and safety shower. When using, do not eat, drink or smoke. Avoid contact with eyes. Avoid contact with skin. Wash hands before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties

Appearance	Colorless liquid.
Color	Colorless.
Odor	Solvent odor.
Odor threshold	Not available.
Physical state	Liquid.
Form	Not available.
pH	Not available.
Melting point	Not available.
Freezing point	Not available.
Boiling point	315 - 390 °F (157.2 - 198.9 °C)
Flash point	100.4 - 140 °F (38 - 60 °C) Tag Closed Cup
Evaporation rate	Not available.
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not available.
Vapor pressure	Not available.
Vapor density	4.9
Specific gravity	0.78
Solubility (water)	Slight.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
VOC	774 g/l - Volatile Organic Compounds used in this formulation are exempt due to their low vapor pressure. The exemption is recognized by all state and federal regulatory agencies.

10. Chemical Stability & Reactivity Information

Chemical stability	Stable at normal conditions. Risk of ignition.
Conditions to avoid	Heat, flames and sparks. Electrostatic discharge.
Incompatible materials	Strong oxidizing agents. Strong acids. Strong bases.
Hazardous decomposition products	Carbon monoxide. Carbon dioxide. Silicon oxides. Nitrogen Oxides.
Possibility of hazardous reactions	Hazardous polymerization does not occur.

11. Toxicological Information

Toxicological data

Components	Test Results
1,3,5-Trimethylbenzene (108-67-8)	Acute Oral LD50 Rat: 8970 mg/kg
Xylene (1330-20-7)	Acute Oral LD50 Rat: 4300 mg/kg
1,2,4-Trimethylbenzene (95-63-6)	Acute Dermal LD50 Rabbit: > 3160 mg/kg Acute Inhalation LC50 Rat: 18000 mg/m3 4 hours
Cumene (98-82-8)	Acute Oral LD50 Rat: 2910 mg/kg

Acute effects	May be fatal if swallowed and enters airways. If aspirated into lungs during swallowing or vomiting, it may cause pulmonary hemorrhage, edema and possible death.
Local effects	Irritating to eyes, respiratory system and skin. Vapors may cause drowsiness and dizziness.
Sensitization	Risk of sensitization or allergic reactions among sensitive individuals.
Chronic effects	Prolonged inhalation may be harmful. Prolonged or repeated exposure may cause lung injury. Prolonged or repeated exposure may cause liver, kidney, and central nervous system damage.

Carcinogenicity Contains a substance that is classified as an IARC 2B - possibly carcinogenic to humans.

ACGIH Carcinogens

Xylene (CAS 1330-20-7)	A4 Not classifiable as a human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

Cumene (CAS 98-82-8)	2B Possibly carcinogenic to humans.
Stoddard solvent (CAS 8052-41-3)	3 Not classifiable as to carcinogenicity to humans.
Xylene (CAS 1330-20-7)	3 Not classifiable as to carcinogenicity to humans.

Mutagenicity Not available.

Neurological effects Central and/or peripheral nervous system damage. May cause drowsiness or dizziness.

Reproductive effects Not available.

Teratogenicity Not available.

Further information Symptoms may be delayed.

12. Ecological Information

Ecotoxicological data

Components	Test Results
1,3,5-Trimethylbenzene (108-67-8)	LC50 Goldfish (Carassius auratus): 9.89 - 15.05 mg/l 96 hours
Xylene (1330-20-7)	LC50 Rainbow trout,donaldson trout (Oncorhynchus mykiss): 8 mg/l 96 Hours
1,2,4-Trimethylbenzene (95-63-6)	LC50 Fathead minnow (Pimephales promelas): 7.19 - 8.28 mg/l 96 hours
Cumene (98-82-8)	EC50 Brine shrimp (Artemia sp.): 3.55 - 11.29 mg/l 48 hours
	LC50 Rainbow trout,donaldson trout (Oncorhynchus mykiss): 2.7 mg/l 96 hours

Ecotoxicity Contains a substance which causes risk of hazardous effects to the environment.

Environmental effects The product may cause risk of hazardous effects to the environment. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Aquatic toxicity Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Persistence and degradability Not available.

Bioaccumulation / Accumulation No data available.

Partition coefficient (n-octanol/water) Not available.

Mobility in environmental media No data available.

13. Disposal Considerations

Waste codes D001: Waste Flammable material with a flash point <140 °F

Disposal instructions Dispose of contents/container in accordance with local/regional/national/international regulations. This material and its container must be disposed of as hazardous waste. Incinerate the material under controlled conditions in an approved incinerator. Do not incinerate sealed containers. Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container.

14. Transport Information

DOT

Basic shipping requirements:

UN number	UN1268
Proper shipping name	Petroleum distillates, n.o.s. (Mineral spirits)
Hazard class	Combustible Liquid
Packing group	III
Labels required	Combustible Liquid

Additional information:

Special provisions	144, B1, IB3, T4, TP1, TP29
Packaging exceptions	150

Packaging non bulk	203
Packaging bulk	242
ERG number	128

IATA

Basic shipping requirements:

UN number	1268
Proper shipping name	Petroleum distillates, n.o.s. (Mineral spirits)
Hazard class	3
Packing group	III
Additional information:	
ERG code	3L

IMDG

Basic shipping requirements:

UN number	1268
Proper shipping name	PETROLEUM DISTILLATES, N.O.S. (MINERAL SPIRITS)
Hazard class	3
Packing group	III
EmS No.	F-E, S-E

TDG

Basic shipping requirements:

Proper shipping name	PETROLEUM DISTILLATES, N.O.S. (MINERAL SPIRITS)
Hazard class	3
UN number	UN1268
Packing group	III

15. Regulatory Information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification(40 CFR 707, Subpt. D)

Not regulated.

US CAA Section 112 Hazardous Air Pollutants (HAPs) List

CUMENE (CAS 98-82-8)
M-XYLENES (CAS 1330-20-7)

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration

1,2,4-Trimethylbenzene (CAS 95-63-6)	1.0 %
Cumene (CAS 98-82-8)	1.0 %
Xylene (CAS 1330-20-7)	1.0 %

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

1,2,4-Trimethylbenzene (CAS 95-63-6)	Listed.
Cumene (CAS 98-82-8)	Listed.
Xylene (CAS 1330-20-7)	Listed.

CERCLA (Superfund) reportable quantity (lbs) (40 CFR 302.4)

Cumene: 5000

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories	Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No
Section 302 extremely hazardous substance (40 CRF 355, Appendix A)	No
Section 311/312 (40 CFR 370)	Yes

Clean Water Act (CWA) Section 112(r) (40 CRF 68.130)	Hazardous substance
Drug Enforcement Administration (DEA) (21 CFR 1308.11-15)	Not controlled
Canadian regulations	This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.
WHMIS status	Controlled
WHMIS classification	B3 - Flammable/Combustible D2A - Other Toxic Effects-VERY TOXIC D2B - Other Toxic Effects-TOXIC

WHMIS labeling

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

State regulations This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

US - California Hazardous Substances (Director's): Listed substance

1,2,4-Trimethylbenzene (CAS 95-63-6)	Listed.
1,3,5-Trimethylbenzene (CAS 108-67-8)	Listed.
Cumene (CAS 98-82-8)	Listed.
Stoddard solvent (CAS 8052-41-3)	Listed.
Xylene (CAS 1330-20-7)	Listed.

US - Massachusetts RTK - Substance: Listed substance

1,2,4-Trimethylbenzene (CAS 95-63-6)	Listed.
1,3,5-Trimethylbenzene (CAS 108-67-8)	Listed.
Cumene (CAS 98-82-8)	Listed.
Stoddard solvent (CAS 8052-41-3)	Listed.
Xylene (CAS 1330-20-7)	Listed.

US - New Jersey Community RTK (EHS Survey): Reportable threshold

1,2,4-Trimethylbenzene (CAS 95-63-6)	500 LBS
Cumene (CAS 98-82-8)	500 LBS
Xylene (CAS 1330-20-7)	500 LBS

US - New Jersey RTK - Substances: Listed substance

1,2,4-Trimethylbenzene (CAS 95-63-6)	Listed.
1,3,5-Trimethylbenzene (CAS 108-67-8)	Listed.
Cumene (CAS 98-82-8)	Listed.
Stoddard solvent (CAS 8052-41-3)	Listed.
Xylene (CAS 1330-20-7)	Listed.

US - Pennsylvania RTK - Hazardous Substances: Listed substance

1,2,4-Trimethylbenzene (CAS 95-63-6)	Listed.

1,3,5-Trimethylbenzene (CAS 108-67-8)	Listed.
Cumene (CAS 98-82-8)	Listed.
Stoddard solvent (CAS 8052-41-3)	Listed.
Xylene (CAS 1330-20-7)	Listed.

16. Other Information

Recommended use	Solvent.
Further information	HMIS® is a registered trade and service mark of the NPCA.
HMIS® ratings	Health: 2* Flammability: 2 Physical hazard: 0
NFPA ratings	Health: 2 Flammability: 2 Instability: 0
Disclaimer	The information in the sheet was written based on the best knowledge and experience currently available.
Issue date	07-09-2010