

SAFETY DATA SHEET

Date Revised: 5/19/17

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===== **SECTION 1 - IDENTIFICATION** =====

PRODUCT NAME: XF-81 SEMIGLOSS DK GREEN URETHANE TOPCOA
PRODUCT CODE: .11057
RECOMMENDED USE: PAINT OR PAINT RELATED MATERIAL

MANUFACTURER: SIERRA CORPORATION
ADDRESS : 11400 WEST 47TH STREET
MINNETONKA, MN 55343 USA
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===== **SECTION 2 - HAZARDS IDENTIFICATION** =====

HAZARD RISK CLASSIFICATION

SIGNAL WORD: DANGER

PICTOGRAM:

GHS02 - FLAME GHS05 - CORROSION GHS06 - SKULL AND CROSSBONES GHS07 - EXCLAMATION MARK GHS08 - HEALTH HAZARD GHS09 - ENVIRONMENT

HAZARD CLASS	HAZARD CATEGORY
FLAMMABLE LIQUIDS	CATEGORY 2
ACUTE TOXICITY	CATEGORY 4 ORAL
ACUTE TOXICITY	CATEGORY 4 DERMAL
ACUTE TOXICITY	CATEGORY 4 INHALATION
SKIN CORROSION /IRRITATION	CATEGORY 2
SERIOUS EYE DAMAGE / EYE IRRITATION	CATEGORY 1
CARCINOGENICITY	CATEGORY 2
TOXIC TO REPRODUCTION	CATEGORY 2
TOXIC TO SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE	CATEGORY 3
TOXIC TO SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE	CATEGORY 2
ASPIRATION HAZARD	CATEGORY 1
HAZARDOUS TO THE AQUATIC ENVIRONMENT SHORT-TERM (ACUTE)	ACUTE 2

HAZARD STATEMENTS:

- H225 Highly flammable liquid and vapor
 - H304 May be fatal if swallowed or enters airways
 - H311+H331 Toxic in contact with skin or if inhaled
 - H315 Causes skin irritation
 - H318 Causes serious eye damage
 - H335 May cause respiratory irritation
 - H336 May cause drowsiness or dizziness
 - H351 Suspected of causing cancer.
 - H360 May damage fertility or the unborn child.
 - H373 May cause damage to organs through prolonged or repeated exposure.
 - H412 Harmful to aquatic life with long lasting effects
- # Chemical(s) which may be considered a cancer hazard by IARC and/or NTP.
Refer to section 11 for further information.

PRECAUTIONARY STATEMENTS:

PREVENTION:

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- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P210 Keep away from heat/hot surfaces/sparks/open flames and other sources of ignition. No smoking.
- P233 Keep container tightly closed.
- P240 Ground and bond container and receiving equipment.
- P241 Use explosion-proof electrical / ventilation/lighting/handling equipment.
- P242 Use non-sparking tools.
- P243 Take action to prevent static discharge.
- P260 Do not breath dusts/fume/gas/mist/vapors or spray.
- P264 Wash hands and any exposed area thoroughly after handling.
- P270 Do not eat, drink or smoke while using this product.
- P271 Use only outdoors or in well-ventilated area.
- P281 Use appropriate personal protective impervious gloves/protective clothing/ OSHA approved eye protection/ face protection.

RESPONSE:

- P301+P310 If swallowed: Immediately call a Poison Center / doctor.
- P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water (or shower).
- P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.
- P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308+P313 If exposed or concerned: Get medical advice / attention.
- P312 Call a POISON CENTER/doctor if you feel unwell.
- P321 Specific treatment (see on this label)
- P322 Specific measures (see on this label)
- P330 Rinse mouth.
- P331 Do NOT induce vomiting.
- P332+P313 If skin irritation occurs: Get medical advice/attention.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P361+P363 Take off immediately all contaminated clothing and wash before reuse.
- P363 Wash contaminated clothing before reuse.
- P370+P378 In case of fire: Use carbon dioxide (CO2), powder, alcohol-resistant foam to extinguish.

STORAGE:

- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P403+P235 Store in a well-ventilated place. Keep cool.
- P405 Store locked up.

DISPOSAL:

- P501 Store separately. Dispose of contents/ container in accordance with local/ regional/national /international regulations.

OTHER HAZARDS: NONE KNOWN

HMIS RATING:

H	F	R	PPE
2	3	0	G

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT	CAS NUMBER	WEIGHT		EXPOSURE LIMITS		
		PERCENT	OSHA PEL	ACGIH TLV	OTHER	

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n-Butyl Acetate	123-86-4	25-35	150 PPM	150 PPM	200 STEL
+*^ Xylene, mixed isomers	1330-20-7	10.31	100 PPM	100 PPM	STEL 150 PPM
# Silica	68855-54-9	6.0	10 MG/M3	0.05 MG/M3	
+*^ Toluene	108-88-3	4.39	100 PPM	50 PPM	150 PPM
* PG Monomethyl Ether Acetate	108-65-6	2.5-5.0	NOT ESTABLISHED		
Ethyl 3-Ethoxy Propionate	763-69-9	0-2.5	50 PPM		100 PPM STEL
Ethyl Acetate	141-78-6	0-2.5	400 PPM	400 PPM	
+*^ Ethyl Benzene	100-41-4	1.84	100 PPM	100 PPM	STEL 125 PPM
* 2,4 Pentanedione	123-54-6	0-2.5	20 PPM	20 PPM	
Talc	14807-96-6	0-2.5	2 MG/M3	2 MG/M3	
2-Methyl 4-Pentanone	108-10-1		50 PPM	50 PPM	STEL 75 PPM

- * Chemical(s) that are chronic health hazards. Refer to section 3 for further information.
- + Toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.
- ^ Hazardous Air Pollutant established by the EPA as directed by the Clean Air Act of 1990.

===== **SECTION 4 - FIRST AID MEASURES** =====

PRIMARY ROUTES OF EXPOSURE:

Skin contact, eye contact, and inhalation.

DESCRIPTION OF FIRST AID MEASURES:

IF ON SKIN: Thoroughly wash exposed area with soap and water. Remove contaminated clothing. Launder contaminated clothing before re-use. If irritation develops and persists, seek medical attention.

IF IN EYES: Flush with large amounts of water for 15 minutes, lifting upper and lower lids occasionally. If symptoms persist, seek medical attention.

IF SWALLOWED: Do not induce vomiting. Immediately administer 1-2 glasses of water and contact a physician, hospital emergency room, or poison control center for further advice. Keep person warm, quiet and seek immediate medical attention. Aspiration of material into lungs can cause severe lung damage. VOMITING CAN CAUSE CHEMICAL PNEUMONITIS WHICH CAN BE FATAL.

INHALATION: Move affected individual to fresh air. If breathing is difficult, qualified personnel should administer oxygen. If breathing has stopped give artificial respiration. If respiratory symptoms develop or persist, seek medical attention.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED:

EYES: Contact with eyes may cause irritation including burning, watering, and redness.

SKIN: Contact may cause mild skin irritation including redness, burning, and drying and cracking of skin.

Continued exposure may develop into dermatitis. Solvents can penetrate the skin and cause systematic effects similar to those under inhalation symptoms.

INHALATION: High vapor concentrations are irritating to the eyes and respiratory tract, may cause headaches, dizziness, anesthesia, asthma, drowsiness, unconsciousness, and other central nervous system effects, and possibly death.

INGESTION: Can cause gastrointestinal irritation, nausea, vomiting and diarrhea. Small amounts aspirated into the respiratory system during ingestion or vomiting may cause mild to severe pulmonary injury.

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CHRONIC HEALTH EFFECTS:

Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage (Sometimes referred to as Solvent or Painter's Syndrome). Intentional misuse by deliberately concentrating and inhaling this material may be harmful or fatal. Chronic exposure may also cause damage to the respiratory system, lungs, eyes, skin, gastrointestinal tract, liver, spleen and kidneys. Repeated skin contact may cause persistent irritation or dermatitis.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

Conditions aggravated by exposure may include skin disorders, respiratory (asthma-like) disorders, and pre-existing liver or kidney conditions.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:

Treat symptomatically.

SECTION 5 - FIRE AND EXPLOSION HAZARD DATA

SUITABLE EXTINGUISHING MEDIA:

Foam, CO2, or dry chemical is recommended. Water spray is recommended to cool or protect exposed materials or structures.

SPECIFIC HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

Vapors may be ignited by heat, sparks, flames, or other sources of ignition. Vapors are heavier than air and may travel considerable distances to a source of ignition where they may cause a flashback or explosion. If container is not properly cooled, it can rupture in the presence of excessive heat. In the event of fire, harmful vapors including carbonyl monoxide, carbon dioxide, and others may be released.

SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS:

Persons exposed to products of combustion should wear self-contained breathing apparatus and full protective equipment. Isolate danger area, keep unauthorized personnel out. Water may be ineffective for extinguishment, unless used under favorable conditions by experienced fire fighters. Carbon dioxide can displace oxygen, exercise caution when using CO2 in confined areas.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES: Evacuate area and keep unnecessary and

unprotected personnel from entering the spill area. Use proper personal protective equipment listed in section 8.

ENVIRONMENTAL PRECAUTIONS: Keep runoff from storm sewers, ditches, streams, lakes and other ground waters and waterways.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN UP:

Contain all spills. Keep all sources of ignition and hot metal surfaces away from spill/release. Use explosion-proof non-sparking equipment. Stay upwind from area. Stop source of release if possible with minimal risk. Spilled material may be absorbed with an appropriate spill kit. Collect into suitable containers and dispose of properly in accordance with all applicable regulations. (See Section 13)

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:

Employees who come in contact with this material must be trained in accordance to 1910.1200 of the Hazard Communication Standard.

Open container slowly to relieve any pressure. Bond and ground all equipment when transferring from one vessel to another. Static charge can accumulate by flow or agitation. Ignition can occur by static discharge. The use of explosion proof equipment is recommended and may be required. The use of respiratory protection is advised when concentrations exceed any established exposure limits and in confined spaces. Use good industrial and personal hygiene practice, wash thoroughly after handling, and do not wear contaminated clothing.

PRECAUTIONS FOR SAFE STORAGE:

Keep containers tightly closed. Use and store material in cool, dry, well-ventilated areas away from heat, direct

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sunlight, hot metal surfaces, and all sources of ignition. Post "No smoking or open flame" sign. Store only in approved containers. Keep away from incompatible materials (see section 10). Protect containers against physical damage. Indoor storage should meet OSHA standards and appropriate fire codes.

OTHER PRECAUTIONS:

"Empty" containers retain residue, liquid and vapor, and may be dangerous. Do not cut, weld, pressurize, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause severe personal injury or death. All containers should be disposed of in an environmentally safe manner in accordance with all government regulations.

=====**SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION**=====

CONTROL PARAMETERS: SEE SECTION 3 FOR OCCUPATIONAL EXPOSURE LIMIT VALUES

ENGINEERING CONTROLS: If current ventilation practices are not adequate to maintain airborne concentrations below the established exposure limits, additional ventilation or exhaust systems may be required. Where explosive mixtures may be present, electrical systems safe for such locations must be used.

PERSONAL PROTECTIVE EQUIPMENT:

RESPIRATORY PROTECTION:

Engineering or administrative controls should be implemented to reduce exposure. A NIOSH/MSHA approved respirator with an organic vapor cartridge should be used under conditions where airborne concentrations are expected to exceed exposure limits (See Section 3). Use a positive pressure air supplied respirator if there is potential for uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

PROTECTIVE GLOVES:

Prevent prolonged or repeated contact by wearing gloves impervious to solvents and other appropriate protective clothing. Launder contaminated clothing before reuse.

EYE PROTECTION:

Wear safety glasses to reduce eye contact potential. Chemical safety goggles (ANSI Z87.1 or approved equivalent) are appropriate if splashing is likely. Eye washes must be available where eye contact can occur.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

A source of clean water should be available for flushing eyes and skin. Showers should be available if larger spills are possible.

WORK/HYGIENIC PRACTICES:

Efforts should be made to minimize contact and spills. Always wash hands before eating, drinking, or smoking. Clean up spills promptly. Follow OSHA and company guidelines.

=====**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**=====

APPEARANCE/PHYSICAL STATE: Liquid

COLOR: Various colors

ODOR: Hydrocarbon odor

pH: Not Determined

ODOR THRESHOLD: Not measured

SOLUBILITY IN WATER: Insoluble/Negligible

MELTING/FREEZING POINT: Not Determined

BOILING POINT/RANGE: 171 F - 302 F

SPECIFIC GRAVITY (H2O=1): 1.1

VAPOR DENSITY: Greater Than Air

EVAPORATION RATE: Not Determined

FLAMMABILITY: Not determined

FLASH POINT: 80 FTCC

VAPOR PRESSURE: Not Determined

UPPER EXPLOSION LIMIT: 13.1

AUTO-IGNITION TEMPERATURE: Not Determined

LOWER EXPLOSION LIMIT: 1

PARTITION COEFFICIENT: Not Available

DECOMPOSITION TEMPERATURE: Not Available

VISCOSITY: Not Determined

COATING V.O.C.: 598 g/l (4.99 lb/gal)

=====**SECTION 10 - STABILITY AND REACTIVITY DATA**=====

REACTIVITY: Will not occur.

CHEMICAL STABILITY:

Stable under normal conditions and handling.

POSSIBILITY OF HAZARDOUS REACTIONS:

No hazardous reactions if stored and handled as prescribed/indicated.

CONDITIONS TO AVOID:

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All possible sources of ignition.

INCOMPATIBLE MATERIALS:

Avoid exposure to strong oxidizing agents and reducing agents.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:

Combustion may liberate toxic byproducts such as carbon dioxide, carbon monoxide, various oxides of carbon and nitrogen.

SECTION 11 - TOXICOLOGICAL INFORMATION

SENSITIZATION:

None known.

CARCINOGENICITY:

The indicated chemical(s) is listed by ICGIH, NTP, or OSHA as a known human carcinogen (See section 2).

REPRODUCTIVE TOXICITY:

There is no data available to indicate any components present at greater than 0.1% may present reproductive toxicity.

TERATOGENICITY (BIRTH DEFECTS):

Yes. 2,4 Pentanedione may cause congenital malformation in the fetus. Available information indicates that Toluene is NOT teratogenic, but it can be toxic to the embryo and fetus and may reduce fertility. In animal tests, high inhaled doses of Toluene has caused reduced litter sizes, retarded development of the fetus, and increased incidence of non-lethal abnormalities.

MUTAGENICITY:

2,4 Pentanedione is a possible mutagen.

SECTION 12 - ECOLOGICAL INFORMATION

ECOTOXICITY:

No data available.

PERSISTENCE AND DEGRADABILITY:

Not readily degradable.

BIOACCUMULATIVE POTENTIAL:

No data available.

MOBILITY IN SOIL:

No data available.

OTHER ADVERSE EFFECTS: Although no information is available for this specific product mixture, individual

components may by themselves may have ecological affects. Trimethylbenzene is a marine pollutant under 49 CFR 172.101.

SECTION 13 - DISPOSAL CONSIDERATIONS

This product is considered a RCRA hazardous waste due to the characteristic(s) of D001 (ignitability). Waste is subject to the land disposal restrictions in 40 CFR 268.40 and may require treatment standards. Consult state and local regulations to determine whether they are more stringent than the federal requirements.

Container contents should be completely used and containers empty prior to discarding. Container rinsate could be considered a RCRA hazardous waste and must be discarded in compliance with all applicable regulations. Larger empty containers, such as drums, should be returned to a professional drum reconditioner. To assure proper disposal of smaller empty containers, consult with state and local regulations and disposal authorities.

SECTION 14 - TRANSPORT INFORMATION

PROPER SHIPPING NAME: (UN #, SHIPPING NAME, HAZARD CLASS, PACKING GROUP)

UN1263, Paint, 3, III

SECTION 15 - REGULATORY INFORMATION

US TOXIC SUBSTANCE CONTROL ACT (TSCA):

All ingredients of this product are listed, or are excluded from listing, on the US Toxic Substances Control Act (TSCA) chemical substance inventory.

SARA 302 EXTREMELY HAZARDOUS SUBSTANCE: None

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SARA 311/312 HAZARDOUS CHEMICAL: See Section 3

SARA 313 (TRI REPORTING):

This product does contain a chemical(s) subject to the reporting requirements of SARA Title III, Section 313 (40CFR 372). See section 3.

STATE LISTED COMPONENTS	CAS NUMBER	STATE CODE
Methyl Isobutyl Ketone	108-10-1	CA, CT, FL, IL, LA, ME, MN, NJ, PA, RI
Ethyl Benzene	100-41-4	CA, NJ, PA
Trimethylbenzene	95-63-6	MA, MN, NJ, PA

CALIFORNIA PROPOSITION 65

This product contains a chemical(s) known to the state of California to cause cancer, birth defects or reproductive harm, which are subject to the requirements of California Proposition 65.

Ethylbenzene	CAS #100-41-4	Cancer
Formaldehyde	CAS 50-00-0	Cancer
Toluene	CAS #108-88-3	Developmental
Methyl isobutyl ketone	CAS #108-1-0	Cancer, developmental

=====**SECTION 16 - OTHER INFORMATION**=====

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This version replaces all previous versions. The information contained in this SDS and any recommendations, technical or otherwise, are presented in good faith and believed to be correct as of the date prepared. Although certain hazards are described herein, The Sierra Company, LLC, cannot guarantee that these are the only hazards that exist. Recipients of this information and recommendations must make their own determination as to its suitability for their purposes. In no event shall The Sierra Company, LLC, assume liability for damages or losses of any kind or nature that result from the use of or reliance upon this information and recommendations. The Sierra Company, LLC, expressly disclaims any representations and warranties of any kind, whether express or implied, as to the accuracy, completeness, non-infringement, merchantability and/or fitness for a particular purpose with respect to any information and recommendations provided. The Sierra Company, LLC, reserves the right to make any changes to the information and/or recommendations at any time, without prior subsequent notice.