

12/5/2018

Four Seasons Part Numbers 69994 / 419955 / 4199558

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Company Identity: First City Chemical Inc.

Product Identity: Super Flush

### SAFETY DATA SHEET

This Safety Data Sheet conforms to ANSI Z400.1 and to the format requirements and the International Chemical Safety Cards of the Global Harmonizing System. This document complies with 29 CFR 1910.1200 (HAZARD COMMUNICATION STANDARD).

**IMPORTANT:** Read this document before handling & disposing of this product.

Pass this information on to employees, customers & users of this product.

#### Section 1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Product Identity: **SUPER FLUSH**  
 New MSDS Date: January 6, 2017  
 Company Identity: First City Chemical Inc.  
 Company Address: 2217 Santa Anna Ave  
 Dallas, Tx. 75228  
 1-972-480-8606  
 Emergency Phones: 1-800-727-2979

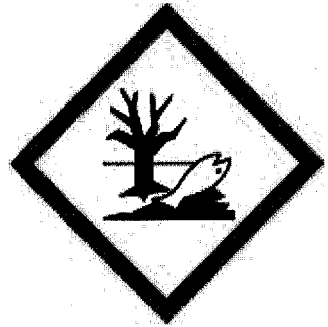
*Temp, Select Flush Premium  
 Solvent Based Solution # 69994*



Flammable liquid



Acute oral toxicity



Aquatic environmental toxicity

#### Section 2. HAZARDS IDENTIFICATION

**DANGER!!**

**Risk Statements:**

- R 11/13 Highly Flammable! Serious electrostatic hazard!
- R 36/37/38 Irritating to eyes, respiratory system and skin.
- R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R 18 In use, may form flammable / explosive vapor-air mixture.
- R 65 Harmful: may cause lung damage if swallowed.
- R 67 Vapors may cause drowsiness and dizziness.

**Safety Statements:**

- S 7/9 Keep container tightly closed and in a well ventilated area.
- S 24/25 Avoid contact with skin and eyes.
- S 2 Keep out of reach of children.
- S 16 Keep away for sources of ignition. No smoking.
- S 23 Do not breathe gas, fumes, vapor or spray.
- S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

- S 29** Do not pour into drains.
- S 33** Take precautionary measures against static discharges.
- S 60** This material and its container must be disposed of as hazardous waste.
- S 61** Avoid release to the environment. Refer to special instructions/safety data sheet.
- S 62** If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.

**See Section 11 for other toxicological information (Acute & Chronic Hazards)**

**Section 3. Composition / Information on Ingredients**

Material	CAS #	EINECS #	Wt%	TWA (OSHA)	TLV (ACGIH)
Heptane	142-82-5	205-563-8	60 – 70	500 ppm	400 ppm
Isopropanol	67-63-0	200-661-7	25 – 35	400 ppm	200 ppm A4

**Section 3. COMPOSITION / INFORMATION ON INGREDIENTS (continued)**

Material	CAS #	EINECS #	CEILING	STEL (OSHA/ACGIH)	HAP
Heptane	142-82-5	205-563-8	None known	500 ppm	No
Isopropanol	67-63-0	200-661-7	None known	400 ppm	No

This product contains no EPA hazardous air pollutants (HAP) in amounts > 0.1%. Using manufacturers' data, based on EPA Method 311, the following EPA hazardous air pollutants may be present in trace amounts (less than 0.1%): Benzene

**Section 4. FIRST AID MEASURES**

**EYE CONTACT:**

For eyes, flush with plenty of water for 15 minutes & get medical attention.

**SKIN CONTACT:**

In case of contact with skin immediately remove contaminated clothing. Wash thoroughly with soap & water. Wash contaminated clothing before reuse.

**INHALATION:**

After high vapor exposure, remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, trained personnel should immediately begin artificial respiration. If the heart has stopped, trained personnel should immediately begin cardiopulmonary resuscitation (CPR).

**SWALLOWING:**

Rinse mouth. Do NOT induce vomiting. GET MEDICAL ATTENTION IMMEDIATELY. Rest. Do NOT give liquids to an unconscious or convulsing person.

**Section 5. FIRE FIGHTING MEASURES**

**FIRE & EXPLOSION PREVENTIVE MEASURES:**

NO open flames, NO sparks & NO smoking. Above flash point, use a closed system, ventilation, explosion-proof electrical equipment & lighting. Do not use compressed air for filling, discharging or handling.

**EXTINGUISHING MEDIA:**

Use dry powder, AFFF, alcohol-resistant foam, water in large amounts or carbon dioxide.

**SPECIAL FIRE FIGHTING PROCEDURES:**

Water spray may be ineffective on fire but can protect fire-fighters & cool closed containers. Use fog nozzles if water is used. Do not enter confined fire-space without full bunker gear. Use NIOSH approved positive-pressure self contained breathing apparatus.

**UNUSUAL EXPLOSION & FIRE PROCEDURES:**

**EXTREMELY FLAMMABLE!! VAORS CAN CAUSE FLASH FIRE !** Closed containers may explode if exposed to extreme heat. Applying to hot surfaces requires special precautions. Empty container is very hazardous! Comply with all label precautions!

**Section 6. ACCIDENTAL RELEASE MEASURES**

**PERSONAL PROTECTIVE MEASURES: EVACUATE DANGER AREA!**

Consult an expert! Vapors may ignite explosively & spread long distances. Prevent vapor buildup. Keep unprotected personnel away. Ventilate spill area. Remove all ignition sources. Filter respirator for organic vapors.

**ENVIRONMENTAL PRECAUTIONS:**

Keep spills from entering storm sewers and ditches which lead to waterways.

**CONTAINMENT AND CLEAN-UP MEASURES:**

Stop spill at source. Dike and contain. Collect leaking liquid in sealable containers. Absorb remaining liquid in sand or inert absorbent. Remove to safe place.

**Section 7. HANDLING AND STORAGE**

**HANDLING:**

Isolate from oxidizers, heat, sparks electric equipment and open flame. Use only with adequate ventilation. Avoid breathing of vapor or spray mist. Avoid contact with skin & eyes. Wear OSHA standard goggles or face shield. Consult safety equipment supplier. Wear gloves, apron, & footwear impervious to this material, Wash clothing before reuse. Avoid free fall of liquid. Ground containers when transferring liquid. Do not flame cut, saw, drill, braze or weld on empty container. Empty container is very hazardous! Continue all label precautions! To minimize static discharge when transferring liquid, ensure electrical continuity by bonding and grounding all equipment. Use and inlet line diameter of at least 3.5 inches (8.9 centimeters) with a maximum flow rate of 1 meter/second.

**STORAGE:**

Vapors may ignite explosively and spread long distances. Prevent vapor buildup. Put out pilot lights and turn off heaters, electric equipment and other ignition sources during use and until all vapors are gone. Keep in fireproof surroundings. Keep separated from strong oxidants. Keep cool. Do not store above 49 C/120 F. Keep container tightly closed and upright when not in use to prevent leakage.

### Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### RESPIRATORY EXPOSURE CONTROLS:

A respiratory protection program that meets OSHA 29 CFR 1910.134 and ANSI Z86.2 requirements or European standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

#### VENTILATION:

<b>LOCAL EXHAUST:</b>	<b>Necessary</b>	<b>Mechanical (General)</b>	<b>Acceptable</b>
Special	None	Other	None

Please refer to ACGIH document, "Industrial Ventilation, A manual of Recommended Practices", most recent edition for details.

#### PERSONAL PROTECTIONS:

Wear OSHA standard goggles or face shield. Consult safety equipment supplier. Wear gloves, apron & footwear impervious to this material. Wash clothing before reuse.

### Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION (Continued)

#### WORK & HYGIENIC PRACTICES:

Provide readily accessible eye wash stations & safety showers. Wash at end of each work-shift & before eating, smoking or using the toilet. Promptly remove clothing that becomes contaminated. Destroy contaminated leather articles. Launder or discard contaminated clothing.

### Section 9. PHYSICAL & CHEMICAL PROPERTIES

APPEARANCE:	Liquid, water white
ODOR:	Alcohol
ODOR THRESHOLD:	Not Available
pH (neutrality):	Not Applicable
MELTING POINT / FREEZING POINT:	Not Available
BOILING RANGE (IBP, 50%, DRY POINT):	80 91 97 C / 177 196 207 F
FLASH POINT (TEST METHOD):	- 6 C / 20 F (TCC) (Lowest Component)
EVAPORATION RATE (n-BUTYL ACETATE = 1):	2.4
FLAMMABILITY CLASSIFICATION:	Class I B
LOWER FLAMMABILITY LIMIT IN AIR (% BY VOLUME):	1.5
UPPER FLAMMABILITY LIMIT IN AIR (% BT VOLUME):	Not Available
VAPOR PRESSURE (MM OF Hg) @ 20 C:	45.8
VAPOR DENSITY (AIR =1):	2.8
GRAVITY @ 68/68 f / 20/20 c:	
SPECIFIC GRAVITY (WATER =1):	0.728
POUNDS / GALLON:	6.060
WATER SOLUBILITY:	Appreciable
PARTITION COEFFICIENT (n-OCTANE/WATER):	Not Available
AUTO IGNITION TEMPERATURE:	293 C / 560 F
DECOMPOSITION TEMPERATURE:	Not Available
REFRACTIVE INDEX:	1.396
MIXED ANILINE POINT (ACID INSOL):	68 C / 155 F
VOC'S (> 0.44 LBS/SQ IN):	100 % Vol% / 727.5 g/l / 6.06 lbs /gal
TOTAL VOC'S (TVOC):	100 % Vol% / 727.5 g/l / 6.06 lbs /gal

NONEXEMPT VOC'S (CVOC):  
HAZARDOUS AIR POLLUTANTS (HAPS):  
NONEXEMPT VOC PARTIAL PRESSURE (mm of Hg @ 20 C):

100 % Vol% / 727.5 g/l / 6.06 lbs /gal  
0.0 Wt, % / 0.0 g/l / 0.000 lbs /gal  
45.8

### Section 10. STABILITY & REACTIVITY

**STABILITY:** Stable under normal conditions.

**CONDITIONS TO AVOID:** Isolate from oxidizers, heat, sparks, electric equipment & open flame.

**MATERIALS TO AVOID:** Reacts violently with strong oxidants, causing fire & explosion hazard.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon monoxide, carbon dioxide from burning.

**HAZARDOUS POLYMERIZATION:** Will not occur.

### Section 11. TOXICOLOGICAL INFORMATION

#### EYE & SKIN CONTACT:

Primary irritation to skin, defatting, dermatitis. Primary irritation to eyes, redness, tearing, blurred vision. Liquid can cause eye irritation. Wash thoroughly after handling.

#### INHALATION:

Anesthetic. Irritates respiratory tract. Acute overexposure can cause serious nervous system depression. Vapor harmful. Breathing vapor can cause irritation. Acute overexposure can cause harm to kidneys, blood, nerves, liver or lungs.

#### SWALLOWING:

Harmful or fatal if swallowed. Swallowing can cause abdominal irritation, nausea, vomiting & diarrhea. The symptoms of chemical pneumonitis may not show up for a few days.

### SUBCHRONIC HAZARDS / CONDITIONS AGGRAVATED

#### CONTITIONS AGGRAVATED:

Chronic overexposure can cause harm to kidneys, blood, nerves, liver and/or lungs. Persons with severe skin, liver or kidney problems should avoid use.

### CHRONIC HAZARDS

#### CANCER, REPRODUCTIVE & OTHER CHRONIC HAZARDS:

Leukemia has been reported in humans from Benzene. This product contains less than 67 ppm of Benzene. Not considered hazardous in such low concentrations. Absorption through skin may be harmful.

#### MAMALIAN INFORMATION:

MATERIAL	CAS#	EINECS#	LOWEST KNOWN LETHAL DOSE DATA
Isopropanol	67-63-0	200-661-7	Lowest Known LD 50 (oral) 5840.0 mg/kg (rats)
Heptane	142-82-5	205-563-8	Lowest Known LC 50 (vapors) 16000 ppm (mice)
Isopropanol	67-63-0	200-661-7	Lowest Known LD 50 (skin) 16400 mg/kg (rabbits)

## Section 12. ECOLOGICAL INFORMATION

**AQUATIC ANIMAL INFORMATION:** The most sensitive known aquatic group to any component of this product is: Chub 1000 ppm or mg/L (24 hour exposure). Keep out of sewers and natural water supplies. The substance is toxic to aquatic organisms. Bioaccumulation of this chemical may occur in aquatic animals.

**MOBILITY IS SOIL:** This material is a mobile liquid.

**DEGRADABILITY:** This product is partially biodegradable.

**ACCUMULATION:** This product does not accumulate or bio-magnify in the environment.

## Section 13. DISPOSAL CONSIDERATIONS

Processing, use or contamination may change the waste management options. Recycle / dispose of observing national, regional, state, provincial or local health, safety & pollution laws. If in doubt, contact appropriate agencies.

## Section 14. TRANSPORT INFORMATION

**DOT SHIPPING NAME:** UN1993, Flammable liquids, n.o.s.  
(Contains : Heptane, Isopropanol), 3 PG -II

**DRUM LABEL:** (FLAMMABLE LIQUID)

**IATA / ICAO:** UN 1993. Flammable liquids, n.o.s.  
(Contains : Heptane, Isopropanol), 3 PG -II

**IMO / IMDG** UN1993, Flammable liquids, n.o.s.  
(Contains : Heptane, Isopropanol), 3 PG -II

**EMERGENCY RESPONSE GUIDEBOOK NUMBER :** 128

## Section 15. REGULATORY INFORMATION

**EPA REGULATION:**

**SARA SECTION 311/312 HAZARDS:** Acute Health, Fire

All components of this product are on the TSCA list. This material contains no known products restricted under SARA Title III, Section 313 in amounts greater or equal to 1%.

## Section 15. REGULATORY INFORMATION (continued)

**INTERNATIONAL REGULATIONS:** The components of this product are listed on the chemical inventories of the following countries: Australia, Canada, China, Europe (EINECS), Japan, Korea, United Kingdom.

### **CANADA: WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS)**

B2: Flammable liquid.

D2B: Irritation to skin / eyes.

### **US STATE REGULATIONS**

California Proposition 65 - This product does not contain any chemicals at detectable levels known to the state of California to cause cancer, birth defects, or any other reproductive harm

## Section 16. OTHER INFORMATION

### **HAZARD RATINGS:**

**HEALTH (NFPA): 1    HEALTH (HMIS): 2    FLAMMABILITY: 3    REACTIVITY: 0**

(Personal Protection Rating to be supplied by user based on use conditions.) This information is intended solely for the use of individuals trained in the NFPA & HMIS hazard rating systems.

### **EMPLOYEE TRAINING:**

See section 2 for risk and safety statements. Employees should be made aware of all hazards of this material (as stated in the safety data sheet) before handling it

### **NOTICE**

The supplier disclaims all expressed or implied warranties of merchantability of fitness for a specific use, with respect to the product or the information provided herein, except for conformation to contracted specifications. All information appearing herein is based upon data obtained from manufacturers and/or recognized technical sources. While the information is believed to be accurate, we make no representations as to its accuracy or sufficiency. Conditions or use are beyond our control, and therefore users are responsible for verifying the data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product. Users also assume all risks in regards to the publication or use of, or reliance upon, information contained herein. This information relates only to the product designated herein and does not relate to its use in combination with any other material or process.