Safety Data Sheet according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 Date of issue: 05/08/2015 Revision date: 05/08/2015 Version: 1.0

SECTION 1: Identification of the su	bstance/mixture and of the company/undertaking
1.1. Product identifier	
Product name	: Super Flush
Product code	: 69994/419955/4199558
1.2. Relevant identified uses of the sub	stance or mixture and uses advised against
Use of the substance/mixture	: Compressor flush fluid
1.3. Details of the supplier of the safety	y data sheet
First City Chemical Inc.	
2217 Santa Anna Ave. Dallas, Texas 75228	
T +1 (972) 480-8606	
1.4. Emergency telephone number	
Emergency number	: +1 (800) 727-2979
SECTION 2: Hazards identification	
2.1. Classification of the substance or	mixture
GHS-US classification	
Flammable Liquid 2	
Skin Irritation 2	
Eye Irritation 2A	
Specific Target Organ Toxicity - Single Exposu	ire 3
Aspiration Toxicity 1	
2.2. Label elements	
GHS-US labelling	
Hazard pictograms (GHS-US)	
	\vee \vee \vee
	GHS02 GHS07 GHS08
Signal word (GHS-US)	: Danger
Hazard statements (GHS-US)	: Highly flammable liquid and vapor. Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness. May be fatal if swallowed and enters airways.
Precautionary statements (GHS-US)	: Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Ground/Bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves/eye protection/face protection. Wash hands thoroughly after handling. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. If on skin: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation
	persists: Get medical advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations.
2.3. Other hazards	
No additional information available.	
2.4 Unknown acute toxicity (GHS US)	

Unknown acute toxicity (GHS US) 2.4. Not applicable.



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SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable.

3.2. **Mixture Product identifier GHS-US** classification Name % Flam. Liq. 2 Skin Irrit. 2 n-Heptane (CAS No) 142-82-5 60 - 100 STOT SE 3 Asp. Tox. 1 (CAS No) 67-63-0 Isopropyl alcohol 15 - 40 Flam. Liq. 2 Eye Irrit. 2A STOT SE 3 (CAS No) 71-43-2 Flam. Liq. 2 Benzene < 0.1 Acute Tox. 4 (Oral) Skin Irrit. 2 Eye Irrit. 2A Muta. 1B Carc. 1A STOT RE 1 Asp. Tox. 1 Ethylbenzene (CAS No) 100-41-4 < 0.1 Flam. Liq. 2 Acute Tox. 4 (Inhalation) Carc. 2 Asp. Tox. 1 Naphthalene (CAS No) 91-20-3 < 0.1 Acute Tox. 4 (Oral) Carc. 2

* The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures after inhalation	: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
First-aid measures after skin contact	: In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation develops and persists.
First-aid measures after eye contact	: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. If irritation persists, get medical attention.
First-aid measures after ingestion	: If swallowed, do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get immediate medical advice/attention.
4.2. Most important symptoms and effect	ts, both acute and delayed
Symptoms/injuries after inhalation	: May cause respiratory tract irritation. May cause drowsiness or dizziness.
Symptoms/injuries after skin contact	: Causes skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.
Symptoms/injuries after eye contact	: Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
Symptoms/injuries after ingestion	: May be fatal if swallowed and enters airways. This product may be aspirated into the lungs and cause chemical pneumonitis. May cause stomach distress, nausea or vomiting.

4.3. Indication of any immediate medical attention and special treatment needed

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

SECTION 5: Firefighting measures			
5.1. Extinguishing media			
Suitable extinguishing media : Powder. Foam. Carbon dioxide.			
Unsuitable extinguishing media	: Do not use a heavy water stream.		
5.2. Special hazards arising from the sub	2. Special hazards arising from the substance or mixture		
Fire hazard	: Highly flammable liquid and vapor. Vapors may be heavier than air and may travel along the ground to a distant ignition source and flash back. Products of combustion may include, and are not limited to: oxides of carbon.		
Explosion hazard	: May form flammable/explosive vapor-air mixture.		
5.3. Advice for firefighters			
Protection during firefighting	: Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA). Use water spray to keep fire-exposed containers cool.		
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SECTION 6: Accidental release measures				
6.1.			ment and emergency procedures	
	measures		Use personal protection recommende	ed in Section 8. Isolate the hazard area and deny entry to nnel. Use special care to avoid static electric charges. Use urces of ignition.
6.2.	Methods and materia	al for containment	and cleaning up	
For conta	ainment		container. Do not flush to sewer or al Protective Equipment (PPE).	material (e.g. sand, vermiculite), then place in a suitable low to enter waterways. Use appropriate Personal
Methods	for cleaning up	:	Scoop up material and place in a disposal container. Vapors may be heavier than air and may travel along the ground to a distant ignition source and flash back. Provide ventilation.	
6.3.	Reference to other se			
See sect	ion 8 for further informa	ition on protective c	lothing and equipment and section 13	for advice on waste disposal.
SECTI	ON 7: Handling ar	nd storage		
7.1.	Precautions for safe	handling		
Precautio	ons for safe handling	:	discharge. Avoid contact with skin an Do not swallow. Handle and open co	No smoking. Take precautionary measures against static d eyes. Avoid breathing fume, gas, mist, spray, vapors. ntainer with care. When using do not eat, drink or smoke. y outdoors or in a well-ventilated area.
Hygiene	measures	:	Launder contaminated clothing before	e reuse. Wash hands before eating, drinking, or smoking.
7.2.	Conditions for safe s	storage, including	any incompatibilities	
Technica	al measures	:	Proper grounding procedures to avoid static electricity should be followed.	
Storage	torage conditions :		Keep locked up and out of reach of children. Keep container tightly closed and in a well- ventilated place. Keep cool.	
7.3.	7.3. Specific end use(s)			
Not avail	able.			
SECTI	ON 8: Exposure c	ontrols/person	al protection	
8.1.	Control parameters			
n-Hept	ane (142-82-5)			
ACGIH		ACGIH TWA (ppn	n)	400 ppm
ACGIH		ACGIH STEL (pp	m)	500 ppm
OSHA		OSHA PEL (TWA) (mg/m³)	2000 mg/m ³
OSHA		OSHA PEL (TWA) (ppm)	500 ppm
Isopropyl alcohol (67-63-0)				
ACGIH		ACGIH TWA (ppn	n)	200 ppm
ACGIH		ACGIH STEL (pp	m)	400 ppm
OSHA		OSHA PEL (TWA) (mg/m³)	980 mg/m ³
OSHA		OSHA PEL (TWA) (ppm)		400 ppm
Benzer	ne (71-43-2)			
	ACGIH ACGIH TWA (ppn		n)	0.5 ppm
ACGIH		ACGIH STEL (pp	m)	2.5 ppm
OSHA		OSHA PEL (TWA) (ppm)	10 ppm (applies to industry segments exempt from the benzene standard at 29 CFR 1910.1028) 1 ppm
OSHA		OSHA PEL (STEI	_) (ppm)	5 ppm (see 29 CFR 1910.1028)
OSHA		OSHA PEL (Ceiling) (ppm)		25 ppm



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Ethylbenzene (100-41-4)			
ACGIH ACGIH TWA (ppm)		20 ppm	
OSHA OSHA PEL (TWA) (mg/m ³) 435 mg/m ³		435 mg/m ³	
OSHA OSHA PEL (TWA) (ppm)		100 ppm	
Naphthalene (91-20-3)			
ACGIH ACGIH TWA (ppm) 10 ppm			
OSHA OSHA PEL (TWA) (mg/m³) 50 mg/m³			
OSHA OSHA PEL (TWA) (ppm) 10 ppm			
3.2. Exposure c	ontrols	I	
Appropriate engineerir	ng controls : Use ventilation adequate	to keep exposures (airborne levels of dust, fume, vapor, etc.) belo	ow

	recommended exposure limits.
Hand protection	: Wear suitable gloves.
Eye protection	: Wear eye protection.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Environmental exposure controls	: Maintain levels below Community environmental protection thresholds.
Other information	: Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. Handle according to established industrial hygiene and safety practices.

SECTION 9: Physical and chemical	properties	
9.1. Information on basic physical and chemical properties		
Physical state	: Liquid	
Appearance	: Clear	
Colour	: Water white	
Odour	: Alcohol	
Odour threshold	: No data available	
рН	: No data available	
Melting point	: No data available	
Freezing point	: No data available	
Boiling point	: 80 °C (177 °F)	
Flash point	: -6 °C (20 °F) TCC (Lowest component)	
Relative evaporation rate (butylacetate=1)	: 2.4	
Flammability (solid, gas)	: Flammable	
Explosive limits	: No data available	
Explosive properties	: No data available	
Oxidising properties	: No data available	
Vapour pressure	: 45.8 mm Hg @ 20 C (68 °F)	
Relative density	: 0.728	
Relative vapour density at 20 °C (air=1)	: 2.8	
Solubility	: Miscible	
Partition coefficient: n-octanol/water	: No data available	
Log Kow	: No data available	
Auto-ignition temperature	: 293 °C (560 °F)	
Decomposition temperature	: No data available	
Viscosity	: No data available	
Viscosity, kinematic	: No data available	
Viscosity, dynamic	: No data available	
9.2. Other information		
VOC content	: 100 % / 727.5 g/L / 6.06 lbs/gal	



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SECTION 10: Stability and reactivity	y .		
10.1. Reactivity			
No dangerous reaction known under conditions of normal use.			
10.2. Chemical stability			
Stable under normal storage conditions. May for	rm flammable/explosive vapor-air mixture.		
10.3. Possibility of hazardous reactions			
No dangerous reaction known under conditions	of normal use.		
10.4. Conditions to avoid			
Heat. Incompatible materials. Sources of ignitic	in.		
10.5. Incompatible materials			
Oxidizers.			
10.6. Hazardous decomposition product			
May include, and are not limited to: oxides of ca			
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SECTION 11: Toxicological informa			
11.1. Information on toxicological effect			
Acute toxicity	: Not classified.		
Super Flush			
LD50 oral rat	> 2000 mg/kg		
LD50 dermal rabbit	> 2000 mg/kg		
LC50 inhalation rat	> 20 mg/l/4h		
n-Heptane (142-82-5)			
LD50 oral mouse	5000 mg/kg		
LD50 dermal rabbit	3000 mg/kg		
LC50 inhalation rat	103 g/m³/4h		
Isopropyl alcohol (67-63-0)			
LD50 oral rat	5045 mg/kg		
LD50 dermal rabbit	12800 mg/kg		
LC50 inhalation rat	72600 mg/m³/4h		
Benzene (71-43-2)			
LD50 oral rat	930 mg/kg		
LD50 dermal rabbit	> 9.4 ml/kg		
LC50 inhalation rat	10305-14380 ppm/4h		
Ethylbenzene (100-41-4)			
LD50 oral rat	3500 mg/kg		
LD50 dermal rabbit	15400 mg/kg		
LC50 inhalation rat	17.2 mg/l/4h		
Naphthalene (91-20-3)			
LD50 oral rat	490 mg/kg		
LD50 dermal rabbit	> 20 g/kg		
Skin corrosion/irritation	: Causes skin irritation.		
Serious eye damage/irritation	: Causes serious eye irritation.		
Respiratory or skin sensitisation	: Based on available data, the classification criteria are not met.		
Germ cell mutagenicity	: Based on available data, the classification criteria are not met.		
Carcinogenicity	: Based on available data, the classification criteria are not met.		
Isopropyl alcohol (67-63-0)			
IARC group	3 - Not classifiable		
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Benzene (71-43-2)	
IARC group	1 - Carcinogenic to humans
National Toxicology Program (NTP) Status	1 - Evidence of Carcinogenicity, 2 - Known Human Carcinogens
In OSHA Specifically Regulated Carcinogen list	Yes
Ethylbenzene (100-41-4)	·
IARC group	2B - Possibly carcinogenic to humans
National Toxicology Program (NTP) Status	1 - Evidence of Carcinogenicity
Naphthalene (91-20-3)	
IARC group	2B - Possibly carcinogenic to humans
National Toxicology Program (NTP) Status	1 - Evidence of Carcinogenicity, 3 - Reasonably anticipated to be Human Carcinogen
Reproductive toxicity	: Based on available data, the classification criteria are not met.
Specific target organ toxicity (single exposure)	: May cause drowsiness or dizziness.
Specific target organ toxicity (repeated exposure)	: Based on available data, the classification criteria are not met.
Aspiration hazard	: May be fatal if swallowed and enters airways.
Symptoms/injuries after inhalation	: May cause respiratory tract irritation. May cause drowsiness or dizziness.
Symptoms/injuries after skin contact	: Causes skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.
Symptoms/injuries after eye contact	: Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
Symptoms/injuries after ingestion	: May be fatal if swallowed and enters airways. This product may be aspirated into the lungs and cause chemical pneumonitis. May cause stomach distress, nausea or vomiting.

SECTION 12, Ecological information	
SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general	: May cause long-term adverse effects in the aquatic environment.
12.2. Persistence and degradability	
Super Flush	
Persistence and degradability	Not established.
12.3. Bioaccumulative potential	
Super Flush	
Bioaccumulative potential	Not established.
12.4. Mobility in soil	
No additional information available.	
12.5. Other adverse effects	
Effect on the global warming	: No known ecological damage caused by this product.
SECTION 13: Disposal consideration	IS
13.1. Waste treatment methods	
Waste disposal recommendations	: This material must be disposed of in accordance with all local, state, provincial, and federal regulations. The generation of waste should be avoided or minimized wherever possible.
Additional information	: Handle empty containers with care because residual vapours are flammable. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally.
SECTION 14: Transport information	
Department of Transportation (DOT)	
In accordance with DOT	
UN-No.(DOT)	: UN1993
Proper Shipping Name (DOT)	: Flammable liquids, n.o.s. (Heptane, Isopropyl alcohol). Marine pollutant.
Department of Transportation (DOT) Hazard Classes	: 3

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Hazard labels (DOT)	
Packing group (DOT)	: 11
Marine pollutant	: Yes

SECTION 15: Regulatory information

15.1. US Federal regulations

State or local regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

n-Heptane (142-82-5)		
EPA TSCA Regulatory Flag T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.		
Isopropyl alcohol (67-63-0)		
Listed on United States SARA Section 313		
EPA TSCA Regulatory Flag	T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.	
SARA Section 313 - Emission Reporting	1.0 % (only if manufactured by the strong acid process, no supplier notification)	
Benzene (71-43-2)		
Listed on United States SARA Section 313		
SARA Section 313 - Emission Reporting 0.1 %		
Ethylbenzene (100-41-4)		
Listed on United States SARA Section 313		
SARA Section 313 - Emission Reporting 0.1 %		
Naphthalene (91-20-3)		
Listed on United States SARA Section 313		
EPA TSCA Regulatory Flag	T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.	
SARA Section 313 - Emission Reporting	0.1 %	
15.2. US State regulations		
Super Flush		

SECTION 16: Other information Date of issue : 05/08/2015 Other information : None.

defects or other reproductive harm.

This product contains chemicals known to the State of California to cause cancer, birth

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